

**Directions of Test**

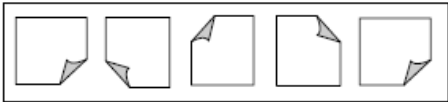
<b>Test Name</b>	Actual MH-CET 2016	<b>Total Questions</b>	200	<b>Total Time</b>	150 Mins
<b>Section Name</b>	<b>No. of Questions</b>	<b>Marks per Question</b>	<b>Negative Marking</b>		
Abstract Reasoning	25	1	0		
Analytical & Logical Reasoning	75	1	0		
Verbal Usage & Reading Comprehension	50	1	0		
Quantitative Ability	50	1	0		

**Section : Abstract Reasoning**

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 1**

**Problem figures**



- A) B) C) D) E)

**Explanation:-** Observing the folded part we find that the fifth figure is same as first figure so the next figure should be same as second figure. Hence option 3.

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 2**



- A) B) C) D) E)

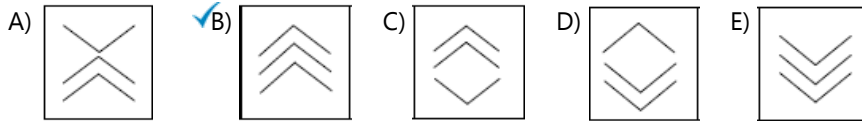
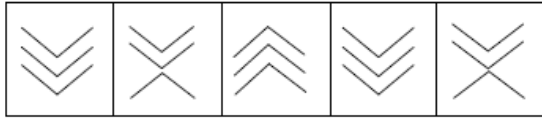
**Explanation:-**

Everytime a part of petal is added and the figure turns 45° anticlockwise and new petal part is added on the front while moving anticlockwise. Hence 2nd option is the next pattern

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 3**

**Problem figures**

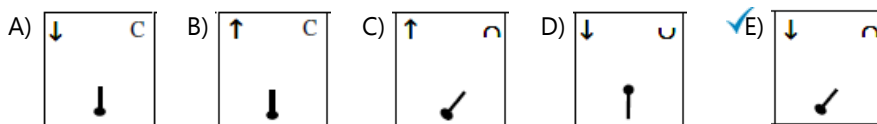
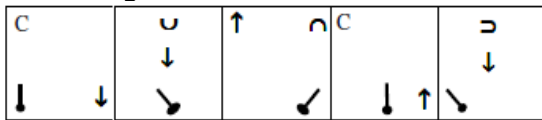


**Explanation:-** Observing the pattern we see that the second figure is repeated in the fifth figure so third figure gets repeated in the next figure which is option 2.

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 4**

**Problem figures**



**Explanation:-** Observing the pendulum going we see that firstly it moves one space at a time in clockwise direction and secondly it tilts  $45^\circ$  to the right and then  $90^\circ$  to the left and then becomes straight. Now following the same pattern it should be tilting  $90^\circ$  to the left which is only in option 5.

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

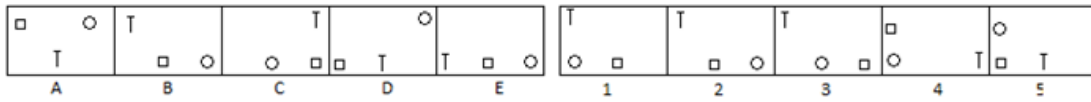
**Question No. : 5**



**Explanation:-** The entire fig. Moves  $90^\circ$  cw. Pic C is the water image of pic 2. The process restarts with a new pic at D.

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 6**



- A) 1 B) 2  C) 3 D) 4 E) 5

**Explanation:-**

Two symbols exchange their positions and the remaining symbol moves CW by one side. From pic 2 to 3, the other two symbols interchange. Then from pic 3 to 4 the remaining combination of the pair swaps. This pattern continues.

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 7**



- A) 1 B) 2 C) 3 D) 4 E) 5

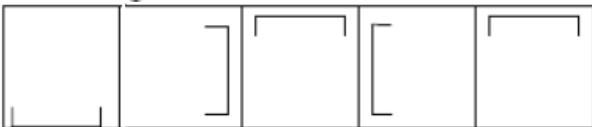
**Explanation:-**

After the two leftmost symbols swap they both turn 90° ACW, whereas the remaining symbol turns 90° CW. The pattern continues with a new pair in each subsequent move.

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 8**

**Problem figures**



- A) B)  C) D) E)

**Explanation:-** The square bracket is moving in 90° ACW direction in each step for the first four figures. Now fifth figure onwards it starts moving in the 90° CW direction. Hence the figure second gets repeated which is only in option 3.

**Question No. : 9**

In the questions given below which one of the five answer figures on the right should come after the problem figures?



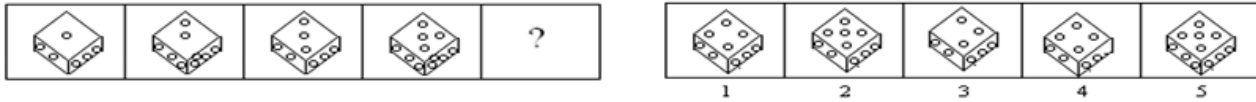
- A)  B) C) D) E)

**Explanation:-**

In 2<sup>nd</sup> Fig, The Fig at 2 ends interchange their places & Fig in between follow the reverse order. In next Fig last Fig moves to top & all other Fig retain same sequence. Once again Fig at 2 ends interchange & sequence follows. If all Fig are on a line then line is moving 90 degrees forward & backward.

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 10**



- A) 1    ✓B) 2    C) 3    D) 4    E) 5

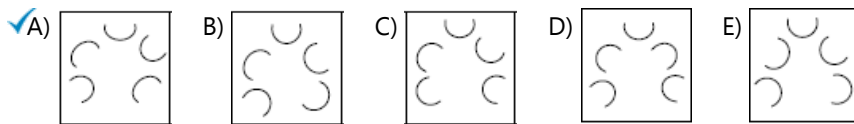
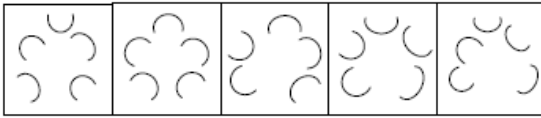
**Explanation:-**

Circles on top face increase by 1, on left face follows 2, -3, -2 pattern & front facing face follows the 3, -4, -3

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 11**

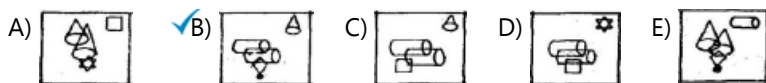
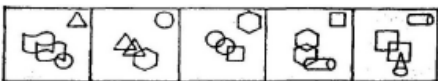
**Problem figures**



**Explanation:-** Observing the pattern we see that different number of **C**'s get inverted. In the second figure only 1 gets inverted, then next 2 invert and lastly the remaining 3 invert. The process is repeated in the 4th figure when again 1 gets inverted so following the pattern the next 2 should get inverted which happens only in choice 1.

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 12**

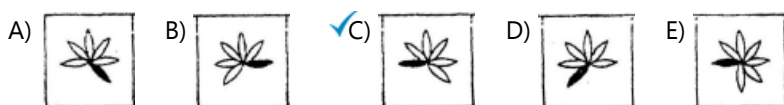


**Explanation:-**

Figure at the right corner changes to 2 similar figures in the middle, the bottom figure goes to the upper right corner. On this basis, options A, D and E are eliminated. Out of the remaining 2 options, option C is further eliminated because no figure has to be repeated in the answer (square is repeated in option 3). Hence, the only remaining option is (B).

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 13**

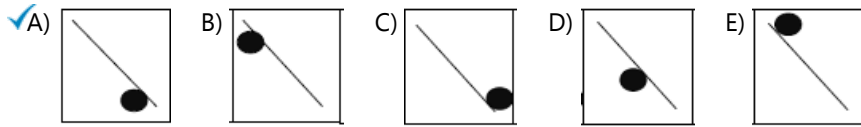
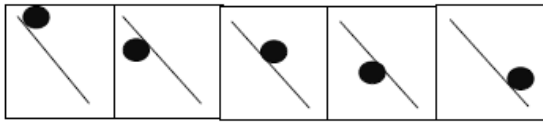


**Explanation:-**

In every figure the leaves move one place ahead of white and black leaves alternatively and a new white leaf is added to the figure everytime. Also filled element is on the left of empty element in 1st fig and then on the right in 2nd figure. Now considering all this logic only option 3 satisfies.

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 14**

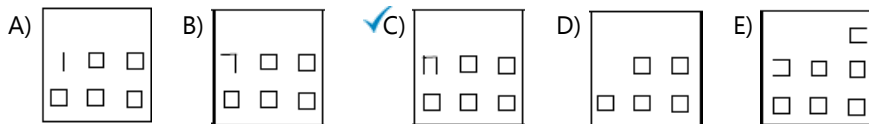
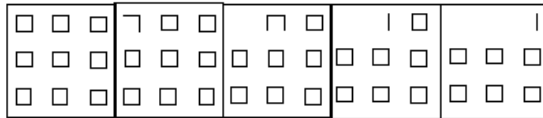


**Explanation:-** The ball gets slid down in a phased manner with every alternate figure it is upside and downside. Now observing the pattern the ball should be downside to the righthand corner which only happens in option 1.

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 15**

**Problem figures**

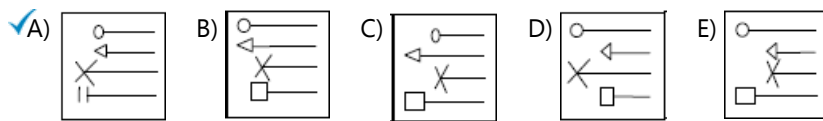
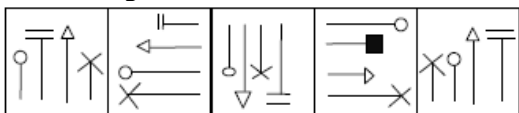


**Explanation:-** Observing the pattern being followed we see that the number of small lines being removed follow the pattern -2,-3,-2,-4,-2 and so on from figure 2 onwards. Hence the number of lines being removed will be 2 which is only in option 3.

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 16**

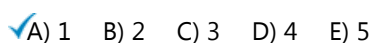
**Problem figures**



**Explanation:-** Checking the pattern we see that firstly the whole figure gets inverted 90° ACW and secondly the symbol on the extreme right is moved to the extreme left and the middle two symbols in the original figure are exchanged. This is only true in option A.

**DIRECTIONS for the question:** Select a figure from the alternatives, which when placed in the blank space of problem figure would complete the pattern.

**Question No. : 17**



**Explanation:-** Circle change to Triangles in an anticlockwise direction. In each box 2 circles get replaced by 2 triangles.

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 18**

**Problem figures**



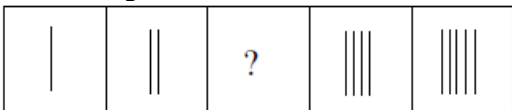
- A) B) C) D) E)

**Explanation:-** The number of petals being added increase by one everytime so the number of petals in the next figure will be 6 which is only in option 2.

**DIRECTIONS for the question:** Select a figure from the alternatives, which when placed in the blank space of problem figure would complete the pattern.

**Question No. : 19**

**Problem figures**

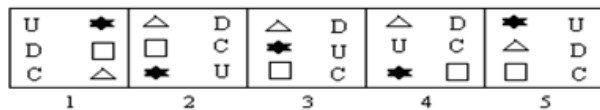
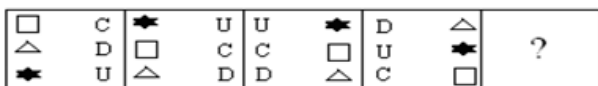


- A) B) C) D) E)

**Explanation:-** The number of lines being added increase by one everytime so the number of lines in the next figure will be 3 vertical lines which is only in option 4.

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 20**



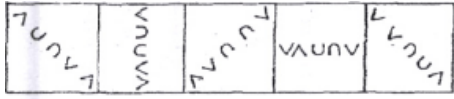
- A) 1 B) 2  C) 3 D) 4 E) 5

**Explanation:-**

In 2nd box last Fig from both sides become 1st Fig & other are pushed down. In 3rd box Fig on left exchange positions with Fig on right. Once again last Fig from both sides become 1st Fig. so now the next box should contain Fig from both sides exchanging their places.

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 21**



- A) B) C) D) E)

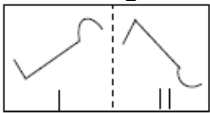
**Explanation:-**

The picture is moving 45° clockwise and the two middle u's are changing direction one by one so now the answer should have both u's facing left i.e. answer is option 3.

**DIRECTIONS for question:** In the following question, there are two Problem Figures (un-numbered figures) followed by five Answer Figures (numbered as A, B, C, D & E). There are certain common characteristics/properties between the two Problem Figures. Select a figure from amongst the Answer Figures which shows similar characteristics/properties as shown by the Problem Figures.

**Question No. : 22**

**Problem figures**



- A) B) C) D) E)

**Explanation:-** Observing the above figures, we see that firstly the image gets inverted 90° CW & now its mirror image is placed. This is only followed in the option A.

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 23**



- A) B) C) D) E)

**Explanation:-**

The six figures are rotating anticlockwise and a new figure is added instead of middle figure. Hence answer is option 2.

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 24**



- A) B) C) D) E)

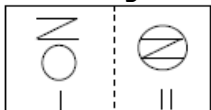
**Explanation:-**

Studying the position of **C**, we check that it is moving one step up and down diagonally so it should be placed in the bottom right corner and a new figure comes on the lower left hand corner. So, answer is option 5.

**DIRECTIONS for the question:** In the question given below which one of the answer figures should come after the problem figures given, if the sequence were continued?

**Question No. : 25**

**Problem figures**



- A) B) C) D) E)

**Explanation:-** Observing the pattern we see that the image in figure I gets inserted in the figure II which is happening only in option 2.

**Section : Analytical & Logical Reasoning**

**DIRECTIONS for the question:** Below the question are given two statements (A) and (B). The statement may be either independent causes or may be effects of independent causes or a common cause. One of the statement may be the effect of the other statement. Read both the statements and decide which of the following answer choice correctly depicts the relationship between the two statements.

**Question No. : 26**

**Statement I:** Banks in Country X have recently decreased the rate of interest on home loans from the present 12 percent to 10.9 percent.

**Statement II:** Apex Bank of Country X has asked the banks to decrease the base rate, i.e. the minimum rate at which banks lend, by 2%.

- A) Both the statements (I) and (II) are the effects of some common cause.  
 B) Both the statements (I) and (II) are independent causes.  
 C) Both the statements (I) and (II) are effects of independent causes.  
 D) Statement (I) is the cause and Statement (II) is the effect. E) Statement (II) is the cause and Statement (I) is its effect.

**Explanation:-** If a country has decreased its interest rate, banks will lower down the bank rate, so I is the cause and II is its effect.



**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 27**

Seven friends H, I, J, K, L, M and N are seated in a straight line, but not necessarily in the same order. Some of them are facing north while some are facing south.

K sits third to the left of I. Neither I nor K sits at any of the extreme ends of the line.

Only three people sit between K and M. J sits second to the right of M.

H sits to the immediate left of N. N who faces south is not an immediate neighbour of K.

Both the immediate neighbours of L face south.

Both the immediate neighbours of K face a direction opposite to N (i.e. if N faces north then both the immediate neighbours of K face south and vice-versa).

What is the position of N with respect to K?

- A) Fourth to the left    B) Fourth to the right    C) Second to the left     D) Second to the right    E) Third to the right

**Explanation:-** The correct order and their direction is

N	H	K	L	J	I	M
↓	↑	↓	↑	↓	↑	↓

The position of N with respect to K is second to the right.

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 28**

Seven friends H, I, J, K, L, M and N are seated in a straight line, but not necessarily in the same order. Some of them are facing north while some are facing south.

K sits third to the left of I. Neither I nor K sits at any of the extreme ends of the line.

Only three people sit between K and M. J sits second to the right of M.

H sits to the immediate left of N. N who faces south is not an immediate neighbour of K.

Both the immediate neighbours of L face south.

Both the immediate neighbours of K face a direction opposite to N (i.e. if N faces north then both the immediate neighbours of K face south and vice-versa).

Who amongst the following sitting at the extreme end of the line, faces north?

- A) H    B) J    C) N    D) L     E) No one

**Explanation:-** The correct order and their direction is

N	H	K	L	J	I	M
↓	↑	↓	↑	↓	↑	↓

Hence no one who is sitting at the extreme end of the line, faces north.

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 29**

Seven friends H, I, J, K, L, M and N are seated in a straight line, but not necessarily in the same order. Some of them are facing north while some are facing south.

K sits third to the left of I. Neither I nor K sits at any of the extreme ends of the line.

Only three people sit between K and M. J sits second to the right of M.

H sits to the immediate left of N. N who faces south is not an immediate neighbour of K.

Both the immediate neighbours of L face south.

Both the immediate neighbours of K face a direction opposite to N (i.e. if N faces north then both the immediate neighbours of K face south and vice-versa).

Based on the given statement, which of the following is true with respect to L?

- A) No one sits to the right of L    B) L sits to immediate right of K    C) L is one of the immediate neighbours of I.  
D) None of the given options is true     E) Only one person sits between L and H

**Explanation:-** The correct order and their direction is

N	H	K	L	J	I	M
↓	↑	↓	↑	↓	↑	↓

Hence, only one person sits between L and H is the true statement.

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 30**

Seven friends H, I, J, K, L, M and N are seated in a straight line, but not necessarily in the same order. Some of them are facing north while some are facing south.

K sits third to the left of I. Neither I nor K sits at any of the extreme ends of the line.

Only three people sit between K and M. J sits second to the right of M.

H sits to the immediate left of N. N who faces south is not an immediate neighbour of K.

Both the immediate neighbours of L face south.

Both the immediate neighbours of K face a direction opposite to N (i.e. if N faces north then both the immediate neighbours of K face south and vice-versa).

In which of the following pairs are both the persons facing south?

- A) H, J   B) N, H   C) H, L    D) K, J   E) L, K

**Explanation:-** The correct order and their direction is

N	H	K	L	J	I	M
↓	↑	↓	↑	↓	↑	↓

Hence the pair K,J faces south.

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 31**

Seven friends H, I, J, K, L, M and N are seated in a straight line, but not necessarily in the same order. Some of them are facing north while some are facing south.

K sits third to the left of I. Neither I nor K sits at any of the extreme ends of the line.

Only three people sit between K and M. J sits second to the right of M.

H sits to the immediate left of N. N who faces south is not an immediate neighbour of K.

Both the immediate neighbours of L face south.

Both the immediate neighbours of K face a direction opposite to N (i.e. if N faces north then both the immediate neighbours of K face south and vice-versa).

Who amongst the following sit exactly between K and I?

- A) L, N   B) H, L   C) J, N   D) H, J    E) L, J

**Explanation:-** The correct order and their direction is

N	H	K	L	J	I	M
↓	↑	↓	↑	↓	↑	↓

Hence L & J sit exactly between K and I.

**DIRECTION for the question:** Read the information given and answer the question that follows.

**Question No. : 32**

High Court of State X has decided to ban an international entrepreneurial programme which was rescheduled to be launched by the State Government near sea shore of the state. Which of the following statements does not weaken the decision taken by the High Court of State X?

- A) Scheduling the programme at any other place of the State rather than the sea shore will create a lot of chafe for general public due to heavy traffic on roads.  
 B) Entrepreneurial programmes require making of dummy structures which are later dismantled thereby causing environmental problems.  
 C) The entrepreneurial programme will help State X in attracting foreign investment thereby boosting the economy of the state.  
 D) Many small entrepreneurs will benefit from the entrepreneurial programme by learning new skills and understanding business dimensions.  
 E) Few national level programmes have been conducted in the past by State X near the sea shore for social causes without causing problems to residents.

**Explanation:-** We need to choose an option that would support the decision of the high court, therefore it must talk against the programme.

Option 1 is irrelevant as the statement talks of rescheduling the programe near sea shore and not somewhere else.

Option 3, 4 and 5 are weakening the decision by showing positive impact of the programme.

Option 2 is correct as it discusses the negative impact of such programmes.

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 33**

**Statements:**  $L < M \geq H \geq G; H \geq K; G > Z$

**Conclusion I:**  $K \leq M$

**Conclusion II:**  $Z < L$

- ✓A) neither I nor II follows   B) only conclusion I follows   C) Both I and II follows   D) either I or II follows  
E) only conclusion II follows

**Explanation:-**  $L < M \geq H \geq G; H \geq K; G > Z$

$M \geq H \geq K;$

There is not a definite relation between G and L so we cannot set a relation between Z and L

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 34**

**Statements:**  $P \geq W \geq R < T; W \geq L; R > K$

**Conclusion I:**  $L < T$

**Conclusion II:**  $W > K$

- A) neither I nor II follows   B) only conclusion I follows   C) both I and II follows   ✓D) either I or II follows  
E) only conclusion II follows

**Explanation:-**  $P \geq W \geq R < T; W \geq L; R > K$

There is not a set relation W and T so there is no relation between L and T

$W \geq R > K$

so  $W > K$  so option 4

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 35**

**Statements:**  $G > H \leq L \leq T; R \leq M \leq N$

**Conclusion I:**  $R = T$

**Conclusion II:**  $T > R$

- ✓A) neither I nor II follows   B) only conclusion I follows   C) both I and II follows   D) either I or II follows  
E) only conclusion II follows

**Explanation:-**  $G > H \leq L \leq T; R \leq M \leq N$

There is not a relation between R and T

so Option 1

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 36**

**Statements:**  $P \geq W \geq R < T; W \geq L; R > K$

**Conclusion I:**  $P \geq L$

**Conclusion II:**  $T < P$

- A) neither I nor II follows   ✓B) only conclusion I follows   C) both I and II follows   D) either I or II follows  
E) only conclusion II follows

**Explanation:-**  $P \geq W \geq R < T; W \geq L; R > K$

$P \geq W \geq L$

only conclusion I follows

There is not a set relation between P and T

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 37**

**Statements:**  $N \geq U < R \leq D; S > J$

**Conclusion I:**  $J < D$

**Conclusion II:**  $D > S$

- ✓ A) neither I nor II follows    B) only conclusion I follows    C) both I and II follows    D) either I or II follows  
E) only conclusion II follows

**Explanation:-**  $N \geq U < R \leq D; S > J$

There is not a set relation between J and D, and D and S

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 38**

**Statements:**  $L < M \geq H \geq G; H \geq K; G > Z$

**Conclusion I:**  $K \geq G$

**Conclusion II:**  $L < G$

- ✓ A) neither I nor II follows    B) only conclusion I follows    C) Both I and II follows    D) either I or II follows  
E) only conclusion II follows

**Explanation:-**  $L < M \geq H \geq G; H \geq K; G > Z$

There is not a set relation between K and G, and G and L

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 39**

**Statements:**  $H \geq U < R \leq D; R < S; J \leq U$

**Conclusion I:**  $H \geq J$

**Conclusion II:**  $J < S$

- A) neither I nor II follows    B) only conclusion I follows    ✓ C) both I and II follows    D) either I or II follows  
E) only conclusion II follows

**Explanation:-**  $H \geq U < R \leq D; R < S; J \leq U$

$H \geq U \geq J$  so conclusion 1 follows

$J \leq U < R < S$  so conclusion 2 also follows

**DIRECTION for the question:** Read the information given and answer the question that follows.

**Question No. : 40**

The question consists of an information and two statements numbered I and II given below it. You have to decide which of the given statements weaken/s or strengthen/s the information and decide the appropriate answer.

Information: The government of state D is contemplating the inclusion of practical learning as a part of curriculum for students studying in the arts stream, which will have 50% weightage in marks.

I. The understanding of practical learning in arts streams could be very subjective and as a result the scoring will change depending on the views of the evaluator.

II. For many subjects in the arts stream it is very difficult to design the curriculum for practical learning and most teachers disagree about what should be included as a part of the curriculum.

- ✓ A) Both Statement I and Statement II weaken the information.  
B) Both Statement I and Statement II are neutral statements.  
C) Statement I strengthen the information while statement II weakens the information.  
D) Statement I weakens the information while Statement II strengthens the information.  
E) Both Statement I and Statement II strengthen the information.

**Explanation:-** Option 1 and 2 weaken the decision as in option 1 if the scoring will change depending on the views of the evaluator, it will be unfair to students as some might get good marks and some might get lower marks for same answer. In option 2 the teachers have different views on curriculum which may result in different output efficiency of teachers.

**DIRECTIONS for the question:** The questions below has two/three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.

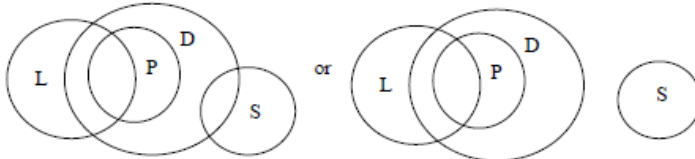
**Question No. : 41**

**Statements:** Some levels are planets. All planets are distances. No distance is a size.

**Conclusion I:** All sizes being planets is a possibility.

**Conclusion II:** No level is a size.

- A) either conclusion I or II is true    B) only conclusion II is true    C) only conclusion I is true  
 D) neither conclusion I nor II is true    E) both conclusion I and II are true



**Explanation:-**

Not a definite conclusion. So option 4.

**DIRECTIONS for the question:** The questions below has two/three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.

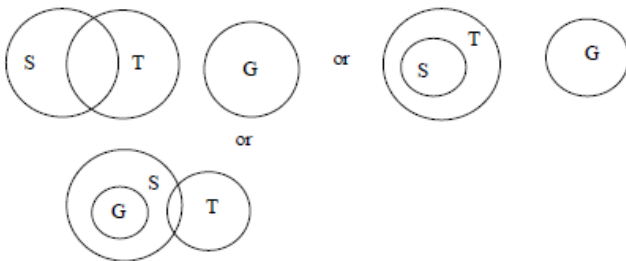
**Question No. : 42**

**Statements:** Some sales are targets. No target is a goal.

**Conclusion I:** Some targets are definitely not sales.

**Conclusion II:** Some goals are definitely not sales.

- A) either conclusion I or II is true    B) only conclusion II is true    C) only conclusion I is true  
 D) neither conclusion I nor II is true    E) both conclusion I and II are true



**Explanation:-**

Not a definite conclusion option 4.

**DIRECTIONS for the question:** The questions below has two/three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.

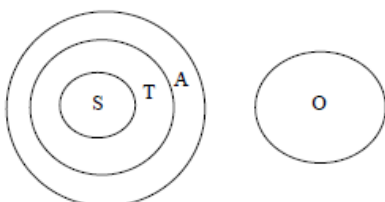
**Question No. : 43**

**Statements:** No object is a subject. All subjects are topics. All topics are aims.

**Conclusion I:** Atleast some objects are aims.

**Conclusion II:** All topics can never be objects.

- A) either conclusion I or II is true     B) only conclusion II is true    C) only conclusion I is true  
 D) neither conclusion I nor II is true    E) both conclusion I and II are true



**Explanation:-**

**DIRECTIONS for the question:** The questions below has two/three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.

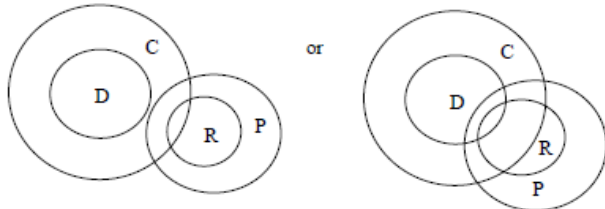
**Question No. : 44**

**Statements:** All discounts are cuts. Some cuts are rebates. All rebates are prices.

**Conclusion I:** No rebate is a discount.

**Conclusion II:** Some rebates are discounts.

- ✓A) either conclusion I or II is true    B) only conclusion II is true    C) only conclusion I is true  
 D) neither conclusion I nor II is true    E) both conclusion I and II are true



**Explanation:-**

**DIRECTIONS for the question:** The questions below has two/three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.

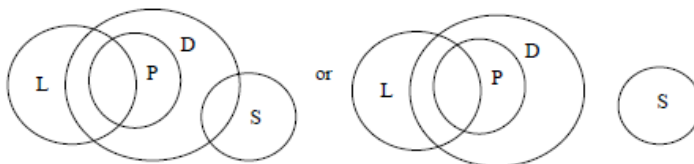
**Question No. : 45**

**Statements:** Some levels are planes. All planes are distances. No distance is a size.

**Conclusion I:** Some distances are levels.

**Conclusion II:** All distances are levels.

- A) either conclusion I or II is true    B) only conclusion II is true    ✓C) only conclusion I is true  
 D) neither conclusion I nor II is true    E) both conclusion I and II are true



**Explanation:-**

**DIRECTIONS for the question:** The questions below has two/three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.

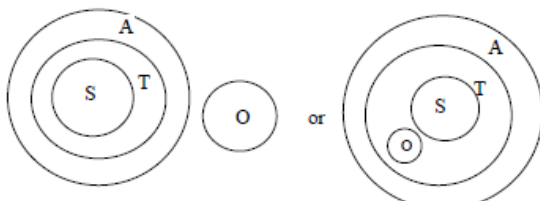
**Question No. : 46**

**Statements:** No object is a subject. All subjects are topics. All topics are aims.

**Conclusion I:** All subjects are aims.

**Conclusion II:** All objects being topics is a possibility.

- A) either conclusion I or II is true    B) only conclusion II is true    C) only conclusion I is true  
 D) neither conclusion I nor II is true    ✓E) both conclusion I and II are true



**Explanation:-**

**DIRECTIONS for the question:** The questions below has two/three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.

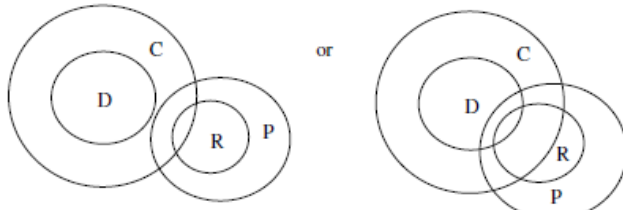
**Question No. : 47**

**Statements:** All discounts are cuts. Some cuts are rebates. All rebates are prices.

**Conclusion I:** Atleast some cuts are prices.

**Conclusion II:** No discount is a price.

- A) either conclusion I or II is true    B) only conclusion II is true    ✓C) only conclusion I is true  
 D) neither conclusion I nor II is true    E) both conclusion I and II are true



**Explanation:-**

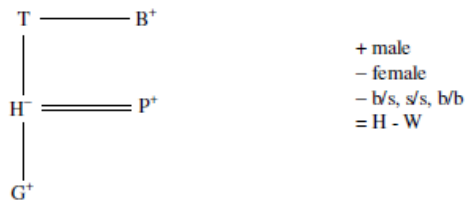
Answer is 1<sup>st</sup> option.

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 48**

If G is the son of H, H is the daughter of T, B is the brother of T and P is married to H, then which of the following statements is definitely true?

- ✓A) P is the father of G    B) H is the daughter of B    C) G is the only child of his parents    D) T has no sister  
 E) T is the mother-in-law of P.



**Explanation:-**

**DIRECTIONS for the question:** Study the following information carefully and answer the question.

**Question No. : 49**

When a word and number arrangement machine is given an input line of words and numbers, it arranges them following a particular rule. The following is an illustration of input and rearrangement. (All the numbers are two digit numbers.)

**Input:** metal 54 title 97 25 vision quest 68 fierce 39 battle 81

Step I: vision metal 54 title 97 quest 68 fierce 39 battle 81 25

Step II: 39 vision metal 54 97 quest 68 fierce battle 81 25 title

Step III: quest 39 vision metal 97 68 fierce battle 81 25 title 54

Step IV: 68 quest 39 vision 97 fierce battle 81 25 title 54 metal

Step V: fierce 68 quest 39 vision 97 battle 25 title 54 metal 81

Step VI: 97 fierce 68 quest 39 vision 25 title 54 metal 81 battle

Step VI is the last step of the above arrangement as the intended arrangement is obtained. As per the rules followed in the given steps, find out the appropriate steps for the given input.

**Input:** 63 45 fault 13 caught imprison 76 51 till hang 27 death

Which elements will appear exactly between the fifth element from the left and the sixth element from the right in step III of the given input?

- A) Both '51' and 'caught'   B) Only 'fault'   C) Both '76'and 'death'    D) Only 'caught'   E) Only '51'

**Explanation:-** In the step I, the last word according to the dictionary is placed at the first position and the smallest number is placed in the end. In the second step, the second smallest number is placed in the start and the second largest word according to dictionary is placed in the end. This pattern is followed in the subsequent steps. Based on it, the steps for the given arrangement are as follows:

Input: 63 45 fault 13 caught imprison 76 51 till hang 27 death

Step I: till 63 45 fault caught imprison 76 51 hang 27 death 13

Step II: 27 till 63 45 fault caught 76 51 hang death 13 imprison

Step III: hang 27 till 63 fault caught 76 51 death 13 imprison 45

Step IV: 51 hang 27 till 63 caught 76 death 13 imprison 45 fault

Step V: death 51 hang 27 till caught 76 13 imprison 45 fault 63

Step VI: 76 death 51 hang 27 till 13 imprison 45 fault 63 caught

Element which will appear exactly between the fifth element from the left(fault) and the sixth element from the right (76) in step III is 'caught'



**DIRECTIONS for the question:** Study the following information carefully and answer the question.

**Question No. : 50**

When a word and number arrangement machine is given an input line of words and numbers, it arranges them following a particular rule. The following is an illustration of input and rearrangement. (All the numbers are two digit numbers.)

**Input:** metal 54 title 97 25 vision quest 68 fierce 39 battle 81

Step I: vision metal 54 title 97 quest 68 fierce 39 battle 81 25

Step II: 39 vision metal 54 97 quest 68 fierce battle 81 25 title

Step III: quest 39 vision metal 97 68 fierce battle 81 25 title 54

Step IV: 68 quest 39 vision 97 fierce battle 81 25 title 54 metal

Step V: fierce 68 quest 39 vision 97 battle 25 title 54 metal 81

Step VI: 97 fierce 68 quest 39 vision 25 title 54 metal 81 battle

Step VI is the last step of the above arrangement as the intended arrangement is obtained. As per the rules followed in the given steps, find out the appropriate steps for the given input.

**Input:** 63 45 fault 13 caught imprison 76 51 till hang 27 death

Which is the ninth element from the right end in step II of the given input?

- A) 76   B) till   C) fault   D) hang    E) 45

**Explanation:-** In the step I, the last word according to the dictionary is placed at the first position and the smallest number is placed in the end. In the second step, the second smallest number is placed in the start and the second largest word according to dictionary is placed in the end. This pattern is followed in the subsequent steps. Based on it, the steps for the given arrangement are as follows:

Input: 63 45 fault 13 caught imprison 76 51 till hang 27 death

Step I: till 63 45 fault caught imprison 76 51 hang 27 death 13

Step II: 27 till 63 45 fault caught 76 51 hang death 13 imprison

Step III: hang 27 till 63 fault caught 76 51 death 13 imprison 45

Step IV: 51 hang 27 till 63 caught 76 death 13 imprison 45 fault

Step V: death 51 hang 27 till caught 76 13 imprison 45 fault 63

Step VI: 76 death 51 hang 27 till 13 imprison 45 fault 63 caught

'45' is the ninth element from the right end in step II of the given input?

**DIRECTIONS for the question:** Study the following information carefully and answer the question.

**Question No. : 51**

When a word and number arrangement machine is given an input line of words and numbers, it arranges them following a particular rule. The following is an illustration of input and rearrangement. (All the numbers are two digit numbers.)

**Input:** metal 54 title 97 25 vision quest 68 fierce 39 battle 81

Step I: vision metal 54 title 97 quest 68 fierce 39 battle 81 25

Step II: 39 vision metal 54 97 quest 68 fierce battle 81 25 title

Step III: quest 39 vision metal 97 68 fierce battle 81 25 title 54

Step IV: 68 quest 39 vision 97 fierce battle 81 25 title 54 metal

Step V: fierce 68 quest 39 vision 97 battle 25 title 54 metal 81

Step VI: 97 fierce 68 quest 39 vision 25 title 54 metal 81 battle

Step VI is the last step of the above arrangement as the intended arrangement is obtained. As per the rules followed in the given steps, find out the appropriate steps for the given input.

**Input:** 63 45 fault 13 caught imprison 76 51 till hang 27 death

Following a certain pattern, '45' 'caught' in step I and similarly 'death' 'imprison' in step IV. Following the same pattern, '76' '\_\_\_\_' in step II.

A) 27   B) 13   C) till   D) fault    E) hang

**Explanation:-** In the step I, the last word according to the dictionary is placed at the first position and the smallest number is placed in the end. In the second step, the second smallest number is placed in the start and the second largest word according to dictionary is placed in the end. This pattern is followed in the subsequent steps. Based on it, the steps for the given arrangement are as follows:

Input: 63 45 fault 13 caught imprison 76 51 till hang 27 death

Step I: till 63 45 fault caught imprison 76 51 hang 27 death 13

Step II: 27 till 63 45 fault caught 76 51 hang death 13 imprison

Step III: hang 27 till 63 fault caught 76 51 death 13 imprison 45

Step IV: 51 hang 27 till 63 caught 76 death 13 imprison 45 fault

Step V: death 51 hang 27 till caught 76 13 imprison 45 fault 63

Step VI: 76 death 51 hang 27 till 13 imprison 45 fault 63 caught

In the first step, there is a gap of one word/number between '45' and 'caught'. Similarly in step IV, there is a gap of one word/number between 'death' and 'imprison'. Following the same pattern, in step II, 76 will pair with 'hang'.

**DIRECTIONS for the question:** Study the following information carefully and answer the question.

**Question No. : 52**

When a word and number arrangement machine is given an input line of words and numbers, it arranges them following a particular rule. The following is an illustration of input and rearrangement. (All the numbers are two digit numbers.)

**Input:** metal 54 title 97 25 vision quest 68 fierce 39 battle 81

Step I: vision metal 54 title 97 quest 68 fierce 39 battle 81 25

Step II: 39 vision metal 54 97 quest 68 fierce battle 81 25 title

Step III: quest 39 vision metal 97 68 fierce battle 81 25 title 54

Step IV: 68 quest 39 vision 97 fierce battle 81 25 title 54 metal

Step V: fierce 68 quest 39 vision 97 battle 25 title 54 metal 81

Step VI: 97 fierce 68 quest 39 vision 25 title 54 metal 81 battle

Step VI is the last step of the above arrangement as the intended arrangement is obtained. As per the rules followed in the given steps, find out the appropriate steps for the given input.

**Input:** 63 45 fault 13 caught imprison 76 51 till hang 27 death

In Step VI, if the digits in all the numbers are reversed, which element will be fourth to the right of the second largest number thus formed?

- ✓ A) 72   B) hang   C) fault   D) 54   E) other than those given as options

**Explanation:-** In the step I, the last word according to the dictionary is placed at the first position and the smallest number is placed in the end. In the second step, the second smallest number is placed in the start and the second largest word according to dictionary is placed in the end. This pattern is followed in the subsequent steps. Based on it, the steps for the given arrangement are as follows:

Input: 63 45 fault 13 caught imprison 76 51 till hang 27 death

Step I: till 63 45 fault caught imprison 76 51 hang 27 death 13

Step II: 27 till 63 45 fault caught 76 51 hang death 13 imprison

Step III: hang 27 till 63 fault caught 76 51 death 13 imprison 45

Step IV: 51 hang 27 till 63 caught 76 death 13 imprison 45 fault

Step V: death 51 hang 27 till caught 76 13 imprison 45 fault 63

Step VI: 76 death 51 hang 27 till 13 imprison 45 fault 63 caught

If the digits in all the numbers of step VI are reversed, then the step VI will be

Step VI: 67 death 15 hang 72 till 31 imprison 54 fault 36 caught

The second largest number is 67 and the fourth element to the right of 67 is 72.

**DIRECTIONS for the question:** Study the following information carefully and answer the question.

**Question No. : 53**

When a word and number arrangement machine is given an input line of words and numbers, it arranges them following a particular rule. The following is an illustration of input and rearrangement. (All the numbers are two digit numbers.)

**Input:** metal 54 title 97 25 vision quest 68 fierce 39 battle 81

Step I: vision metal 54 title 97 quest 68 fierce 39 battle 81 25

Step II: 39 vision metal 54 97 quest 68 fierce battle 81 25 title

Step III: quest 39 vision metal 97 68 fierce battle 81 25 title 54

Step IV: 68 quest 39 vision 97 fierce battle 81 25 title 54 metal

Step V: fierce 68 quest 39 vision 97 battle 25 title 54 metal 81

Step VI: 97 fierce 68 quest 39 vision 25 title 54 metal 81 battle

Step VI is the last step of the above arrangement as the intended arrangement is obtained. As per the rules followed in the given steps, find out the appropriate steps for the given input.

**Input:** 63 45 fault 13 caught imprison 76 51 till hang 27 death

In which steps of the given input does '76' appear to the left of 'caught'?

- A) Only Step IV   B) Both Step V and VI   C) Both Step IV and Step V   D) Only Step III    E) Only Step VI

**Explanation:-** In the step I, the last word according to the dictionary is placed at the first position and the smallest number is placed in the end. In the second step, the second smallest number is placed in the start and the second largest word according to dictionary is placed in the end. This pattern is followed in the subsequent steps. Based on it, the steps for the given arrangement are as follows:

Input: 63 45 fault 13 caught imprison 76 51 till hang 27 death

Step I: till 63 45 fault caught imprison 76 51 hang 27 death 13

Step II: 27 till 63 45 fault caught 76 51 hang death 13 imprison

Step III: hang 27 till 63 fault caught 76 51 death 13 imprison 45

Step IV: 51 hang 27 till 63 caught 76 death 13 imprison 45 fault

Step V: death 51 hang 27 till caught 76 13 imprison 45 fault 63

Step VI: 76 death 51 hang 27 till 13 imprison 45 fault 63 caught

Hence only in step VI, the 76 is to the left of caught.

**DIRECTIONS for the question:** Study the following information carefully and answer the question.

**Question No. : 54**

When a word and number arrangement machine is given an input line of words and numbers, it arranges them following a particular rule. The following is an illustration of input and rearrangement. (All the numbers are two digit numbers.)

**Input:** metal 54 title 97 25 vision quest 68 fierce 39 battle 81

Step I: vision metal 54 title 97 quest 68 fierce 39 battle 81 25

Step II: 39 vision metal 54 97 quest 68 fierce battle 81 25 title

Step III: quest 39 vision metal 97 68 fierce battle 81 25 title 54

Step IV: 68 quest 39 vision 97 fierce battle 81 25 title 54 metal

Step V: fierce 68 quest 39 vision 97 battle 25 title 54 metal 81

Step VI: 97 fierce 68 quest 39 vision 25 title 54 metal 81 battle

Step VI is the last step of the above arrangement as the intended arrangement is obtained. As per the rules followed in the given steps, find out the appropriate steps for the given input.

**Input:** 63 45 fault 13 caught imprison 76 51 till hang 27 death

How many elements will appear between '63' and 'death' in Step IV of the given input?

- ✓ A) Two   B) Three   C) One   D) None   E) More than three

**Explanation:-** In the step I, the last word according to the dictionary is placed at the first position and the smallest number is placed in the end. In the second step, the second smallest number is placed in the start and the second largest word according to dictionary is placed in the end. This pattern is followed in the subsequent steps. Based on it, the steps for the given arrangement are as follows:

Input: 63 45 fault 13 caught imprison 76 51 till hang 27 death

Step I: till 63 45 fault caught imprison 76 51 hang 27 death 13

Step II: 27 till 63 45 fault caught 76 51 hang death 13 imprison

Step III: hang 27 till 63 fault caught 76 51 death 13 imprison 45

Step IV: 51 hang 27 till 63 caught 76 death 13 imprison 45 fault

Step V: death 51 hang 27 till caught 76 13 imprison 45 fault 63

Step VI: 76 death 51 hang 27 till 13 imprison 45 fault 63 caught

There are two elements between '63' and 'death' in Step IV.

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 55**

Eight persons J, K, L, M, N, O, P and Q all belonging to the same family are sitting around a circular table, facing the centre (with equal distance between each other but not necessarily in the same order.)

O sits second to the left of his wife. Both the immediate neighbours of O are males.

J, the wife of M sits third to the left of P. P is the daughter of Q.

Only one person sits between J and P's sister.

Only three people sit between L and N. One of the immediate neighbours of L is married to L

K is not an immediate neighbour of O.

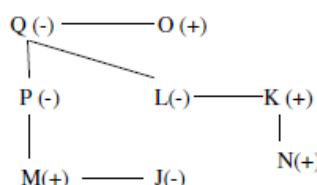
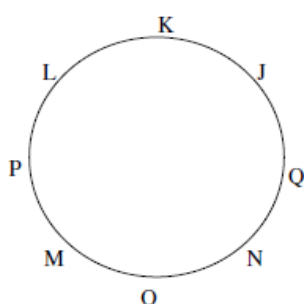
P's only child is an immediate neighbour of P.

Only two people sit between N and one of N's parents.

Who among the following is N's mother?

- ✓A) L   B) P   C) K   D) J   E) Cannot be determined

From the given information, we can make the following diagram.



Here (+) means male and (-) means female.

**Explanation:-**

Hence L is N's mother

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 56**

Eight persons J, K, L, M, N, O, P and Q all belonging to the same family are sitting around a circular table, facing the centre (with equal distance between each other but not necessarily in the same order.)

O sits second to the left of his wife. Both the immediate neighbours of O are males.

J, the wife of M sits third to the left of P. P is the daughter of Q.

Only one person sits between J and P's sister.

Only three people sit between L and N. One of the immediate neighbours of L is married to L

K is not an immediate neighbour of O.

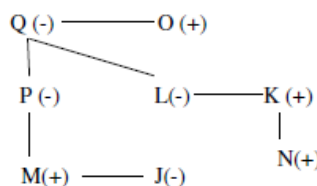
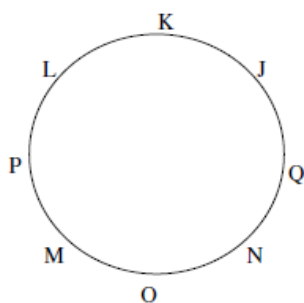
P's only child is an immediate neighbour of P.

Only two people sit between N and one of N's parents.

Who sits exactly between O and Q, when counted from the left of Q?

- A) L   B) P   ✓C) M's cousin   D) J   E) O's grandmother

From the given information, we can make the following diagram.



Here (+) means male and (-) means female.

**Explanation:-**

N sits between O and Q who is M's cousin.

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 57**

Eight persons J, K, L, M, N, O, P and Q all belonging to the same family are sitting around a circular table, facing the centre (with equal distance between each other but not necessarily in the same order.)

O sits second to the left of his wife. Both the immediate neighbours of O are males.

J, the wife of M sits third to the left of P. P is the daughter of Q.

Only one person sits between J and P's sister.

Only three people sit between L and N. One of the immediate neighbours of L is married to L

K is not an immediate neighbour of O.

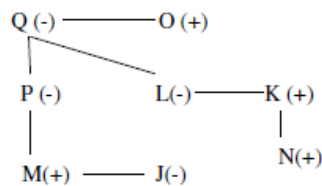
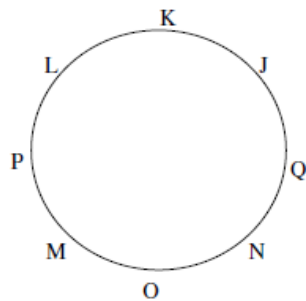
P's only child is an immediate neighbour of P.

Only two people sit between N and one of N's parents.

Four of the following five are alike in a certain way based on the given arrangement and hence form a group. Which one does not belong to the group?

- A) K     B) L    C) M    D) N    E) O

From the given information, we can make the following diagram.



Here (+) means male and (-) means female.

**Explanation:-**

All except L are males.

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 58**

Eight persons J, K, L, M, N, O, P and Q all belonging to the same family are sitting around a circular table, facing the centre (with equal distance between each other but not necessarily in the same order.)

O sits second to the left of his wife. Both the immediate neighbours of O are males.

J, the wife of M sits third to the left of P. P is the daughter of Q.

Only one person sits between J and P's sister.

Only three people sit between L and N. One of the immediate neighbours of L is married to L

K is not an immediate neighbour of O.

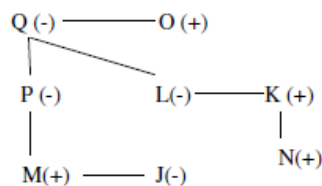
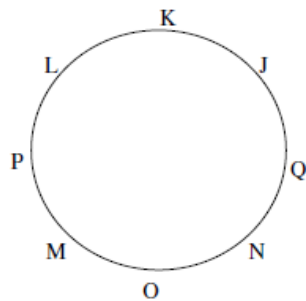
P's only child is an immediate neighbour of P.

Only two people sit between N and one of N's parents.

Which of the following statements is true as per the given information?

- A) N and M are immediate neighbours of L     B) O is the father of P    C) None of the given statements is true  
D) O sits third to the right of P    E) P sits to the immediate right of her daughter.

From the given information, we can make the following diagram.



Here (+) means male and (-) means female.

**Explanation:-**

O is the father of P.

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 59**

Eight persons J, K, L, M, N, O, P and Q all belonging to the same family are sitting around a circular table, facing the centre (with equal distance between each other but not necessarily in the same order.)

O sits second to the left of his wife. Both the immediate neighbours of O are males.

J, the wife of M sits third to the left of P. P is the daughter of Q.

Only one person sits between J and P's sister.

Only three people sit between L and N. One of the immediate neighbours of L is married to L

K is not an immediate neighbour of O.

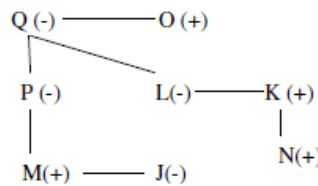
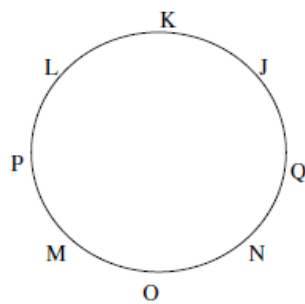
P's only child is an immediate neighbour of P.

Only two people sit between N and one of N's parents.

How is K related to the person who is sitting to immediate left of J?

- ✓A) Son-in-law   B) Grandmother   C) Father-in-law   D) Nephew   E) Aunt

From the given information, we can make the following diagram.



Here (+) means male and (-) means female.

**Explanation:-**

K is the Son-in-law of Q.

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 60**

Eight persons J, K, L, M, N, O, P and Q all belonging to the same family are sitting around a circular table, facing the centre (with equal distance between each other but not necessarily in the same order.)

O sits second to the left of his wife. Both the immediate neighbours of O are males.

J, the wife of M sits third to the left of P. P is the daughter of Q.

Only one person sits between J and P's sister.

Only three people sit between L and N. One of the immediate neighbours of L is married to L

K is not an immediate neighbour of O.

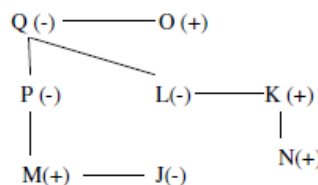
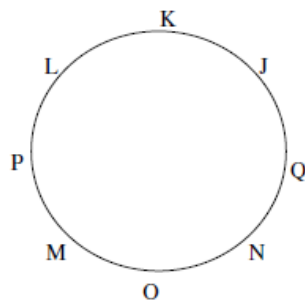
P's only child is an immediate neighbour of P.

Only two people sit between N and one of N's parents.

Who amongst the following is K's sister-in-law?

- A) J   ✓B) P   C) Q   D) L   E) N

From the given information, we can make the following diagram.



Here (+) means male and (-) means female.

**Explanation:-**

P is the sister-in-law of K



**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 61**

Ten people are sitting in two parallel rows containing five people each, in such a way that there is equal distance between each adjacent persons. In row-1 J, K, L, M and N are seated and all of them are facing north. In row-2 P, Q, R, S and T are seated and all of them are facing south. Each of them likes a different fruit namely, Banana, Orange, Guava, Pineapple, Kiwi, Cherry, Mango, Apple, Strawberry and Litchi but not necessarily in the same order. Therefore, in the given seating arrangement, each member seated in a row faces another member of the other row and each of them likes a different fruit. (Please Note: All the given information is not necessarily in the order) R sits second to the left of S. R does not sit at any of the extreme ends of the row. The one who faces R sits to the immediate left of the one who likes Cherry. Only two people sit between the one who likes Cherry and the one who likes Mango. The one who faces the one who likes Mango sits third to the right of the one who likes Apple. Only one person sits between the one who likes apple and the one who likes litchi. The one who faces the one who likes litchi sits third to the left of N. Only two people sit between N and M. L faces Q. The one who likes orange sits to the immediate right of Q. The one who likes Strawberry sits second to the left of the one who likes orange. P sits to the immediate left of the one who likes guava. The one who likes kiwi sits to the immediate right of the one who likes banana. J does not like mango.

Four of the given five are alike in a certain way based on the given arrangement and hence form a group. Which of them does not belong to that group?

- ✓A) J   B) S   C) T   D) K   E) N

**Explanation:-**

Guava	Litchi	Orange	Apple	Strawberry
S	P	R	Q	T
K	M	J	L	N
Mango	Banana	Kiwi	Cherry	Pineapple

All except J are at the extreme ends

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 62**

Ten people are sitting in two parallel rows containing five people each, in such a way that there is equal distance between each adjacent persons. In row-1 J, K, L, M and N are seated and all of them are facing north. In row-2 P, Q, R, S and T are seated and all of them are facing south. Each of them likes a different fruit namely, Banana, Orange, Guava, Pineapple, Kiwi, Cherry, Mango, Apple, Strawberry and Litchi but not necessarily in the same order. Therefore, in the given seating arrangement, each member seated in a row faces another member of the other row and each of them likes a different fruit. (Please Note: All the given information is not necessarily in the order) R sits second to the left of S. R does not sit at any of the extreme ends of the row. The one who faces R sits to the immediate left of the one who likes Cherry. Only two people sit between the one who likes Cherry and the one who likes Mango. The one who faces the one who likes Mango sits third to the right of the one who likes Apple. Only one person sits between the one who likes apple and the one who likes litchi. The one who faces the one who likes litchi sits third to the left of N. Only two people sit between N and M. L faces Q. The one who likes orange sits to the immediate right of Q. The one who likes Strawberry sits second to the left of the one who likes orange. P sits to the immediate left of the one who likes guava. The one who likes kiwi sits to the immediate right of the one who likes banana. J does not like mango.

Who amongst the following is facing K?

- A) The one who likes Pineapple   ✓B) The one who likes Guava   C) R   D) P   E) The one who likes Kiwi

**Explanation:-**

Guava	Litchi	Orange	Apple	Strawberry
S	P	R	Q	T
K	M	J	L	N
Mango	Banana	Kiwi	Cherry	Pineapple

S, i.e. who likes guava sits opposite K

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 63**

Ten people are sitting in two parallel rows containing five people each, in such a way that there is equal distance between each adjacent persons. In row-1 J, K, L, M and N are seated and all of them are facing north. In row-2 P, Q, R, S and T are seated and all of them are facing south. Each of them likes a different fruit namely, Banana, Orange, Guava, Pineapple, Kiwi, Cherry, Mango, Apple, Strawberry and Litchi but not necessarily in the same order. Therefore, in the given seating arrangement, each member seated in a row faces another member of the other row and each of them likes a different fruit. (Please Note: All the given information is not necessarily in the order) R sits second to the left of S. R does not sit at any of the extreme ends of the row. The one who faces R sits to the immediate left of the one who likes Cherry. Only two people sit between the one who likes Cherry and the one who likes Mango. The one who faces the one who likes Mango sits third to the right of the one who likes Apple. Only one person sits between the one who likes apple and the one who likes litchi. The one who faces the one who likes litchi sits third to the left of N. Only two people sit between N and M. L faces Q. The one who likes orange sits to the immediate right of Q. The one who likes Strawberry sits second to the left of the one who likes orange. P sits to the immediate left of the one who likes guava. The one who likes kiwi sits to the immediate right of the one who likes banana. J does not like mango.

Who amongst the following is facing T?

- ✓A) N    B) The one who likes Kiwi    C) The one who likes Mango    D) The one who likes Orange    E) J

**Explanation:-**

Guava	Litchi	Orange	Apple	Strawberry
S	P	R	Q	T
K	M	J	L	N
Mango	Banana	Kiwi	Cherry	Pineapple

N is facing T

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 64**

Ten people are sitting in two parallel rows containing five people each, in such a way that there is equal distance between each adjacent persons. In row-1 J, K, L, M and N are seated and all of them are facing north. In row-2 P, Q, R, S and T are seated and all of them are facing south. Each of them likes a different fruit namely, Banana, Orange, Guava, Pineapple, Kiwi, Cherry, Mango, Apple, Strawberry and Litchi but not necessarily in the same order. Therefore, in the given seating arrangement, each member seated in a row faces another member of the other row and each of them likes a different fruit. (Please Note: All the given information is not necessarily in the order) R sits second to the left of S. R does not sit at any of the extreme ends of the row. The one who faces R sits to the immediate left of the one who likes Cherry. Only two people sit between the one who likes Cherry and the one who likes Mango. The one who faces the one who likes Mango sits third to the right of the one who likes Apple. Only one person sits between the one who likes apple and the one who likes litchi. The one who faces the one who likes litchi sits third to the left of N. Only two people sit between N and M. L faces Q. The one who likes orange sits to the immediate right of Q. The one who likes Strawberry sits second to the left of the one who likes orange. P sits to the immediate left of the one who likes guava. The one who likes kiwi sits to the immediate right of the one who likes banana. J does not like mango.

Which of the following statements is true regarding J?

- A) Only two people sit between J and the one who likes Pineapple  
 B) J sits to the immediate right of the one who likes Cherry    C) None of the given statements is true  
 ✓D) One of J's immediate neighbours faces the one who likes litchi  
 E) J faces one of the immediate neighbours of the one who likes Strawberry

**Explanation:-**

Guava	Litchi	Orange	Apple	Strawberry
S	P	R	Q	T
K	M	J	L	N
Mango	Banana	Kiwi	Cherry	Pineapple

One of the J's immediate neighbors faces the one who likes litchi.

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 65**

Ten people are sitting in two parallel rows containing five people each, in such a way that there is equal distance between each adjacent persons. In row-1 J, K, L, M and N are seated and all of them are facing north. In row-2 P, Q, R, S and T are seated and all of them are facing south. Each of them likes a different fruit namely, Banana, Orange, Guava, Pineapple, Kiwi, Cherry, Mango, Apple, Strawberry and Litchi but not necessarily in the same order. Therefore, in the given seating arrangement, each member seated in a row faces another member of the other row and each of them likes a different fruit. (Please Note: All the given information is not necessarily in the order) R sits second to the left of S. R does not sit at any of the extreme ends of the row. The one who faces R sits to the immediate left of the one who likes Cherry. Only two people sit between the one who likes Cherry and the one who likes Mango. The one who faces the one who likes Mango sits third to the right of the one who likes Apple. Only one person sits between the one who likes apple and the one who likes litchi. The one who faces the one who likes litchi sits third to the left of N. Only two people sit between N and M. L faces Q. The one who likes orange sits to the immediate right of Q. The one who likes Strawberry sits second to the left of the one who likes orange. P sits to the immediate left of the one who likes guava. The one who likes kiwi sits to the immediate right of the one who likes banana. J does not like mango.

What is the position of M with respect to T?

- A) M faces the one who sits to the immediate right of T.
- B) M faces the one who sits second to the left of T.
- C) M faces the one who sits second to the right of T.
- D) M faces the one who sits third to right of T.
- E) M faces the one who sits to the immediate left of T.

**Explanation:-**

Guava	Litchi	Orange	Apple	Strawberry
S	P	R	Q	T
K	M	J	L	N
Mango	Banana	Kiwi	Cherry	Pineapple

M faces the one who sits third to the right of T

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 66**

Ten people are sitting in two parallel rows containing five people each, in such a way that there is equal distance between each adjacent persons. In row-1 J, K, L, M and N are seated and all of them are facing north. In row-2 P, Q, R, S and T are seated and all of them are facing south. Each of them likes a different fruit namely, Banana, Orange, Guava, Pineapple, Kiwi, Cherry, Mango, Apple, Strawberry and Litchi but not necessarily in the same order. Therefore, in the given seating arrangement, each member seated in a row faces another member of the other row and each of them likes a different fruit. (Please Note: All the given information is not necessarily in the order) R sits second to the left of S. R does not sit at any of the extreme ends of the row. The one who faces R sits to the immediate left of the one who likes Cherry. Only two people sit between the one who likes Cherry and the one who likes Mango. The one who faces the one who likes Mango sits third to the right of the one who likes Apple. Only one person sits between the one who likes apple and the one who likes litchi. The one who faces the one who likes litchi sits third to the left of N. Only two people sit between N and M. L faces Q. The one who likes orange sits to the immediate right of Q. The one who likes Strawberry sits second to the left of the one who likes orange. P sits to the immediate left of the one who likes guava. The one who likes kiwi sits to the immediate right of the one who likes banana. J does not like mango.

What is the position of S with respect to Q?

- A) Second to the left
- B) Third to the right
- C) Third to the left
- D) To the immediate right
- E) To the immediate left

**Explanation:-**

Guava	Litchi	Orange	Apple	Strawberry
S	P	R	Q	T
K	M	J	L	N
Mango	Banana	Kiwi	Cherry	Pineapple

S is sitting third to the right of Q

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 67**

Ten people are sitting in two parallel rows containing five people each, in such a way that there is equal distance between each adjacent persons. In row-1 J, K, L, M and N are seated and all of them are facing north. In row-2 P, Q, R, S and T are seated and all of them are facing south. Each of them likes a different fruit namely, Banana, Orange, Guava, Pineapple, Kiwi, Cherry, Mango, Apple, Strawberry and Litchi but not necessarily in the same order. Therefore, in the given seating arrangement, each member seated in a row faces another member of the other row and each of them likes a different fruit. (Please Note: All the given information is not necessarily in the order) R sits second to the left of S. R does not sit at any of the extreme ends of the row. The one who faces R sits to the immediate left of the one who likes Cherry. Only two people sit between the one who likes Cherry and the one who likes Mango. The one who faces the one who likes Mango sits third to the right of the one who likes Apple. Only one person sits between the one who likes apple and the one who likes litchi. The one who faces the one who likes litchi sits third to the left of N. Only two people sit between N and M. L faces Q. The one who likes orange sits to the immediate right of Q. The one who likes Strawberry sits second to the left of the one who likes orange. P sits to the immediate left of the one who likes guava. The one who likes kiwi sits to the immediate right of the one who likes banana. J does not like mango.

Four of the given five are alike in a certain way based on the given arrangement and hence form a group. Which of them does not belong to that group?

- ✓A) Orange-Kiwi   B) Strawberry-Banana   C) Apple-Mango   D) Litchi-Pineapple   E) Guava-Cherry

**Explanation:-**

Guava	Litchi	Orange	Apple	Strawberry
S	P	R	Q	T
K	M	J	L	N
Mango	Banana	Kiwi	Cherry	Pineapple

All except Orange-Kiwi are matched with third-next matched fruit. Orange-Kiwi are opposite to each other.

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 68**

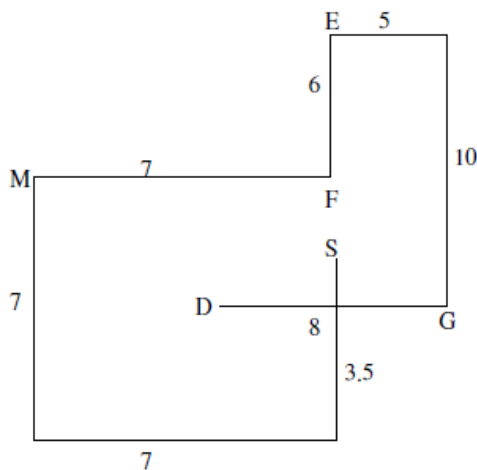
Radha starts from point F, walks 6m to the north and reaches point E. She then takes a right turn and walks 5m. She again takes a right turn, walks for 10m and reaches point G. She finally takes a right turn and walks 8m and stops at point D.

Medha, who is standing at point M which is 7m to the west of point F walks 7m towards south, takes a left turn and walks for 7m. She finally takes a left turn and after walking for 3.5m stops at point S.

In which direction is point G from point M?

- A) South-west   B) East   ✓C) South-east   D) South   E) North-east

From the given information we can make the following diagram.



**Explanation:-**

G is to the South-East of M.

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 69**

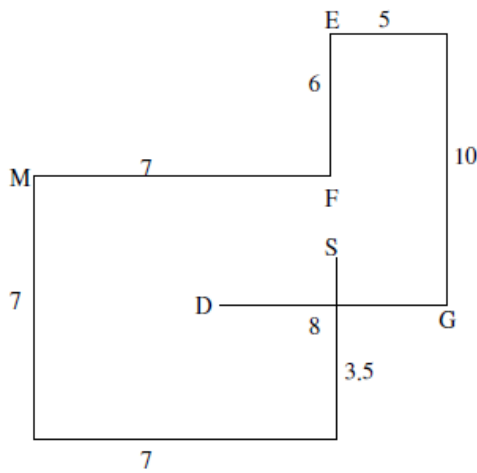
Radha starts from point F, walks 6m to the north and reaches Point E. She then takes a right turn and walks 5m. She again takes a right turn, walks for 10m and reaches point G. She finally takes a right turn and walks 8m and stops at point D.

Medha, who is standing at point M which is 7m to the west of point F walks 7m towards south, takes a left turn and walks for 7m. She finally takes a left turn and after walking for 3.5m stops at point S.

How far and in which direction is Medha's final position with respect to point F?

- A) 5.5m towards north    B) 3.5m towards west    C) 7m towards south    D) 5m towards south     E) 3.5m towards south

From the given information we can make the following diagram.



**Explanation:-**

Medha is 3.5m South of F.

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 70**

Seven stores, namely M, N, O, P, Q, R and S were launched on seven different days of the same week starting from Monday to Sunday (but not necessarily in the same order). Each store was launched in a different locality namely-Aligan, Sodaala, Borivali, Saket, Bamrauli, Velupur and Chembur (but not necessarily in the same order). Store P was launched on one of the days after Friday. Only three stores were launched between P and the one launched in Saket. Only one store was launched between S and the one launched in Saket. S was not launched on Friday. The store launched in Borivali was launched on the day immediately after S was launched. Only two stores were launched between M and the one launched in Borivali. The store launched in Aliganj was launched on one of the days before M. S was not launched in Aliganj. Q was launched in Bamrauli but not on Sunday. Only three stores were launched between N and the one launched in Bamrauli. The store launched in Sodaala was launched on the day immediately after the store in Chembur was launched. O was not launched on Monday.

In which of the following localities was R launched?

- A) Sodaala    B) Chembur    C) Velupur     D) Aliganj    E) Other than those given as options

**Explanation:-**

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
R	M	Q	S	O	P	N
Aliganj	Saket	Bamrauli	Velupur	Borivali	Chembur	Sodaala

R is located in Aliganj

## Actual MH-CET 2016

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 71**

Seven stores, namely M, N, O, P, Q, R and S were launched on seven different days of the same week starting from Monday to Sunday (but not necessarily in the same order). Each store was launched in a different locality namely-Aligan, Sodaala, Borivali, Saket, Bamrauli, Velupur and Chembur (but not necessarily in the same order). Store P was launched on one of the days after Friday. Only three stores were launched between P and the one launched in Saket. Only one store was launched between S and the one launched in Saket. S was not launched on Friday. The store launched in Borivali was launched on the day immediately after S was launched. Only two stores were launched between M and the one launched in Borivali. The store launched in Aliganj was launched on one of the days before M. S was not launched in Aliganj. Q was launched in Bamrauli but not on Sunday. Only three stores were launched between N and the one launched in Bamrauli. The store launched in Sodaala was launched on the day immediately after the store in Chembur was launched. O was not launched on Monday.

Four of the following five are alike in a certain way as per the given arrangement and hence form a group. Which of the following does not belong to that group?

- A) Tuesday- R   B) Sunday- P    C) Wednesday-O   D) Monday- M   E) Saturday- N

**Explanation:-**

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
R	M	Q	S	O	P	N
Aliganj	Saket	Bamrauli	Velupur	Borivali	Chembur	Sodaala

Each one is matched with alternate day except Wednesday-O.

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 72**

Seven stores, namely M, N, O, P, Q, R and S were launched on seven different days of the same week starting from Monday to Sunday (but not necessarily in the same order). Each store was launched in a different locality namely-Aligan, Sodaala, Borivali, Saket, Bamrauli, Velupur and Chembur (but not necessarily in the same order). Store P was launched on one of the days after Friday. Only three stores were launched between P and the one launched in Saket. Only one store was launched between S and the one launched in Saket. S was not launched on Friday. The store launched in Borivali was launched on the day immediately after S was launched. Only two stores were launched between M and the one launched in Borivali. The store launched in Aliganj was launched on one of the days before M. S was not launched in Aliganj. Q was launched in Bamrauli but not on Sunday. Only three stores were launched between N and the one launched in Bamrauli. The store launched in Sodaala was launched on the day immediately after the store in Chembur was launched. O was not launched on Monday.

Which of the following combinations is correct as per the given arrangement?

- A) Tuesday-N-Borivali   B) Monday-N-Chembur   C) Saturday-Q-Bamrauli    D) Thursday-S-Velupur  
E) None of the given options

**Explanation:-**

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
R	M	Q	S	O	P	N
Aliganj	Saket	Bamrauli	Velupur	Borivali	Chembur	Sodaala

Thursday-S-Velupur is matched correctly.

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 73**

Seven stores, namely M, N, O, P, Q, R and S were launched on seven different days of the same week starting from Monday to Sunday (but not necessarily in the same order). Each store was launched in a different locality namely-Aligan, Sodaala, Borivali, Saket, Bamrauli, Velupur and Chembur (but not necessarily in the same order). Store P was launched on one of the days after Friday. Only three stores were launched between P and the one launched in Saket. Only one store was launched between S and the one launched in Saket. S was not launched on Friday. The store launched in Borivali was launched on the day immediately after S was launched. Only two stores were launched between M and the one launched in Borivali. The store launched in Aliganj was launched on one of the days before M. S was not launched in Aliganj. Q was launched in Bamrauli but not on Sunday. Only three stores were launched between N and the one launched in Bamrauli. The store launched in Sodaala was launched on the day immediately after the store in Chembur was launched. O was not launched on Monday.

Which of the following pairs represent the stores which was launched immediately before and immediately after S?

- A) R, N     B) Q, O    C) O, R    D) N, P    E) M, Q

**Explanation:-**

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
R	M	Q	S	O	P	N
Aliganj	Saket	Bamrauli	Velupur	Borivali	Chembur	Sodaala

Q and O are launched immediately before and after S.

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 74**

Seven stores, namely M, N, O, P, Q, R and S were launched on seven different days of the same week starting from Monday to Sunday (but not necessarily in the same order). Each store was launched in a different locality namely-Aligan, Sodaala, Borivali, Saket, Bamrauli, Velupur and Chembur (but not necessarily in the same order). Store P was launched on one of the days after Friday. Only three stores were launched between P and the one launched in Saket. Only one store was launched between S and the one launched in Saket. S was not launched on Friday. The store launched in Borivali was launched on the day immediately after S was launched. Only two stores were launched between M and the one launched in Borivali. The store launched in Aliganj was launched on one of the days before M. S was not launched in Aliganj. Q was launched in Bamrauli but not on Sunday. Only three stores were launched between N and the one launched in Bamrauli. The store launched in Sodaala was launched on the day immediately after the store in Chembur was launched. O was not launched on Monday.

As per the given arrangement, N is related to Friday and Q. is related to Monday in a certain way. To which of the following is P related to in the same way?

- A) Sunday    B) Saturday     C) Thursday    D) Wednesday    E) Tuesday

**Explanation:-**

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
R	M	Q	S	O	P	N
Aliganj	Saket	Bamrauli	Velupur	Borivali	Chembur	Sodaala

Both are shifted two days before their original schedule, so P is related to Thursday.

## Actual MH-CET 2016

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 75**

Seven stores, namely M, N, O, P, Q, R and S were launched on seven different days of the same week starting from Monday to Sunday (but not necessarily in the same order). Each store was launched in a different locality namely-Aligan, Sodaala, Borivali, Saket, Bamrauli, Velupur and Chembur (but not necessarily in the same order). Store P was launched on one of the days after Friday. Only three stores were launched between P and the one launched in Saket. Only one store was launched between S and the one launched in Saket. S was not launched on Friday. The store launched in Borivali was launched on the day immediately after S was launched. Only two stores were launched between M and the one launched in Borivali. The store launched in Aliganj was launched on one of the days before M. S was not launched in Aliganj. Q was launched in Bamrauli but not on Sunday. Only three stores were launched between N and the one launched in Bamrauli. The store launched in Sodaala was launched on the day immediately after the store in Chembur was launched. O was not launched on Monday.

On which of the following days was N launched?

- A) Friday   B) Monday   C) Thursday   D) Tuesday    E) Sunday

**Explanation:-**

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
R	M	Q	S	O	P	N
Aliganj	Saket	Bamrauli	Velupur	Borivali	Chembur	Sodaala

N is launched on Sunday

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 76**

Seven stores, namely M, N, O, P, Q, R and S were launched on seven different days of the same week starting from Monday to Sunday (but not necessarily in the same order). Each store was launched in a different locality namely-Aligan, Sodaala, Borivali, Saket, Bamrauli, Velupur and Chembur (but not necessarily in the same order). Store P was launched on one of the days after Friday. Only three stores were launched between P and the one launched in Saket. Only one store was launched between S and the one launched in Saket. S was not launched on Friday. The store launched in Borivali was launched on the day immediately after S was launched. Only two stores were launched between M and the one launched in Borivali. The store launched in Aliganj was launched on one of the days before M. S was not launched in Aliganj. Q was launched in Bamrauli but not on Sunday. Only three stores were launched between N and the one launched in Bamrauli. The store launched in Sodaala was launched on the day immediately after the store in Chembur was launched. O was not launched on Monday.

Which of the given statements is TRUE as per the given arrangement?

- A) R was launched on Wednesday   B) S was launched in Chembur   C) Only two stores were launched after M  
 D) Only two stores were launched between P and Q   E) None of the given statements is true

**Explanation:-**

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
R	M	Q	S	O	P	N
Aliganj	Saket	Bamrauli	Velupur	Borivali	Chembur	Sodaala

Only two stores are launched between P and Q

**DIRECTION for the question:** Read the information given and answer the question that follows.

**Question No. : 77**

The HR managers of Company XYZ have been recruiting regularly from college D, however, since the past two years the managers of the company have been very unhappy as although its students recruited from College D are very good at work, most of them resign within six to seven months of employment for better salaries? Which of the following may be the immediate course of action undertaken by the HR manager of company XYZ in order to deal with the situation?

- A) The pay package of recruits of college D should be inclusive of a percentage retention bonus which would be given to employees only after completion of a year  
 B) College D must be blacklisted and no student must be recruited from the college  
 C) The management of college D must be informed of the situation and should be asked to talk to the students appearing for the interview  
 D) The recruits of college D must be asked to sign a bond of minimum five years before being employed  
 E) The students of college D should be asked during the interview if they intend to stay with the company for a long time

**Explanation:-** In this case, HR should think about the retention of employees rather than the consequences, hence option 1 should be the answer.

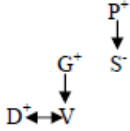


**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 78**

If D is the brother of V, G is the father of V. S is married to G and P is father of S, then how is D related to P?

- A) Brother   B) Grandfather    C) Grandson   D) Nephew   E) Cannot be determined



**Explanation:-**

D is grandson of P

**DIRECTION for the question:** Read the information given and answer the question that follows.

**Question No. : 79**

Bank B in country Z had launched a scheme named 'Sona Vridhi' in which customers can deposit gold with the bank and earn an interest rate higher than the other banks. However the scheme failed badly. Which of the following statements can be a reason for the failure of the scheme launched by Bank B?

- A) The scheme has a lock-in period of one to three years and the interest can be redeemed in the form of either gold or cash  
 B) The minimum weight of pure gold to be deposited in 'Sona Vridhi' is 500 grams worth Rs. 10 lacs with no upper limit  
 C) The tax levied on interest received from the gold deposits in the scheme is lower as compared to other deposits  
 D) 'Sona Vridhi' allow individuals to use the deposit in the scheme as a collateral security against loans  
 E) Unlike similar gold schemes of other banks 'Sona Vridhi' accepts gold jewellery as a deposit along with gold bars and biscuits

**Explanation:-** Option 2 gives a limitation to the scheme wherein people belonging to a financially sound family could invest. It cannot be of use to the section of people with lower income. Therefore, it would have failed.

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 80**

In a certain code language,

- 'new series launching soon' is coded as 'tk nh mp er'  
 'launching fresh adventure series' is coded as 'er lo nh wi'  
 'rebuilt status coming soon' is coded as 'bj yu tk fg'  
 'coming with fresh results' is coded as 'fg wi yu da'  
 (All codes are two letter codes only)

What is the code for 'new' in the given code language?

- A) tk   B) yu    C) mp   D) fg   E) da

**Explanation:-** 'new series launching soon' is coded as 'tk nh mp er'  
 'launching fresh adventure series' is coded as 'er lo nh wi'  
 'rebuilt status coming soon' is coded as 'bj yu tk fg'  
 'coming with fresh results' is coded as 'fg wi yu da'

Launching, series- nh, er

Soon- tk

Coming- yu

Fresh- wi

Now we know in the first sentence the code for series launching soon, so code for 'new' is 'mp'

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 81**

In a certain code language,  
'new series launching soon' is coded as 'tk nh mp er'  
'launching fresh adventure series' is coded as 'er lo nh wi'  
'rebuilt status coming soon' is coded as 'bj yu tk fg'  
'coming with fresh results' is coded as 'fg wi yu da'  
(All codes are two letter codes only)

In the given code language, if 'results status declared' is coded as 'bj xq fg', then what will be the code for 'declared fresh coming' in the given code language?

- A) wi yu lo    B) er lo xq     C) xq yu wi    D) bj wi er    E) yu xq bj

**Explanation:-** 'new series launching soon' is coded as 'tk nh mp er'  
'launching fresh adventure series' is coded as 'er lo nh wi'  
'rebuilt status coming soon' is coded as 'bj yu tk fg'  
'coming with fresh results' is coded as 'fg wi yu da'

Launching, series- nh, er

Soon- tk

Coming- yu

Fresh- wi

'Results status declared' = bj xq fg

So the code of results is fg and of status is bj. Hence the code for declared is xq.

Now the code for 'declared fresh coming' is- xq yu wi

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 82**

In a certain code language,  
'new series launching soon' is coded as 'tk nh mp er'  
'launching fresh adventure series' is coded as 'er lo nh wi'  
'rebuilt status coming soon' is coded as 'bj yu tk fg'  
'coming with fresh results' is coded as 'fg wi yu da'  
(All codes are two letter codes only)

What will be the code for 'adventure' in the given code language?

- A) wi    B) er     C) lo    D) yu    E) Other than those given as options

**Explanation:-** 'new series launching soon' is coded as 'tk nh mp er'  
'launching fresh adventure series' is coded as 'er lo nh wi'  
'rebuilt status coming soon' is coded as 'bj yu tk fg'  
'coming with fresh results' is coded as 'fg wi yu da'

Launching, series- nh, er

Soon- tk

Coming- yu

Fresh- wi

In the second sentence, 'launching fresh adventure series' is coded as 'er lo nh wi'

We know the code for launching series fresh, so code for adventure is, 'lo'

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 83**

In a certain code language,  
'new series launching soon' is coded as 'tk nh mp er'  
'launching fresh adventure series' is coded as 'er lo nh wi'  
'rebuilt status coming soon' is coded as 'bj yu tk fg'  
'coming with fresh results' is coded as 'fg wi yu da'  
(All codes are two letter codes only)

What may be the possible code for 'soon with lyrics' in the given code language?

- A) mp er bj     B) tk vs fg    C) vs da mp    D) fg da tk    E) wi tk vs

**Explanation:-** 'new series launching soon' is coded as 'tk nh mp er'  
'launching fresh adventure series' is coded as 'er lo nh wi'  
'rebuilt status coming soon' is coded as 'bj yu tk fg'  
'coming with fresh results' is coded as 'fg wi yu da'

Launching, series- mh, er

Soon- tk

Coming- yu

Fresh- wi

The code of 'with' is fg or da.

By matching the codes, we get code for 'soon with lyrics' as 'tk vs fg'

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 84**

In a certain code language,  
'new series launching soon' is coded as 'tk nh mp er'  
'launching fresh adventure series' is coded as 'er lo nh wi'  
'rebuilt status coming soon' is coded as 'bj yu tk fg'  
'coming with fresh results' is coded as 'fg wi yu da'  
(All codes are two letter codes only)

What does the code 'nh' stand for in the given code language?

- A) either 'fresh' or 'status'     B) either 'series' or 'launching'    C) adventure    D) Soon    E) New

**Explanation:-** 'new series launching soon' is coded as 'tk nh mp er'  
'launching fresh adventure series' is coded as 'er lo nh wi'  
'rebuilt status coming soon' is coded as 'bj yu tk fg'  
'coming with fresh results' is coded as 'fg wi yu da'

Launching, series- nh, er

Soon- tk

Coming- yu

Fresh- wi

So nh stands for either 'series' or 'launching'.

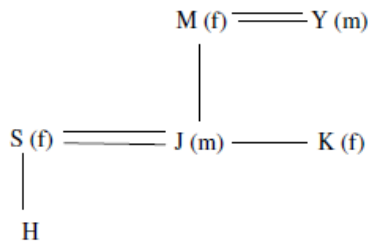
**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 85**

If S is married to J, M is the mother of J and K, K is the only daughter of Y and H is the only child of S, then which of the following statements is not definitely true?

- ✓A) H is the grandson of Y    B) J is the son of M    C) K is the aunt of H    D) M is the wife of Y  
E) Y is the father-in-law of S

From the given information we can make the following diagram.



**Explanation:-**

H can be male or female, it is not specified

**DIRECTION for the question:** Read the information given and answer the question that follows.

**Question No. : 86**

'The variety of faux leather items sold these days have snatched our market. Despite longer durability of real leather, people these days are settling for faux leather only because of their prices and colour options' - statement by the owner of a leather-items showroom.

Which of the following can be inferred from the owner's statement? (An inference is something by which you can logically deduce something to be true based on known premises.)

- ✓A) Durability is the least important factor that affects the choice of customers while buying leather items  
B) Just lowering the price of real leather by some percentage will attract more customers  
C) Incorporating novel contrast combinations of economic prices will help the market of real leather to revive  
D) The manufacturing cost of real leather and faux leather is more or less same  
E) The texture of faux leather is exactly same as that of real leather

**Explanation:-** It is evident from the owner's statement that only two areas have been impacting the sales of leather i.e. price and colour options. Also the durability of leather is not able to retain customer.

Thus option 3, 4 and 5 are rejected. In option 2 it strictly talks of price whereas colour options is also a consideration factor. Therefore option 1 is best answer.

**DIRECTION for the question:** Read the information given and answer the question that follows.

**Question No. : 87**

'Paramount Consultants' have gradually evolved to complete online functioning as compared to the manual functioning 10 years ago. Owing to the same, the HR manager of the company has requested the Chairman to allot at least half the space of the printing press in the basement of the building to set up a customer care centre. Which of the following best supports the Manger's plea to the Chairman?

- A) Customer Care centre is in highest use only during the peak recruitment season, thus allotting a separate floor to it would be unnecessary blocking of space  
✓B) Earlier the portals were provided in printed format only and sent to the companies in hard copies, but now they are sent only through e-mails and their dispatch/receipt is coordinate telephonically or electronically  
C) All the staff members working in the printing press have bigger cubicles than other staff members  
D) All the departments of the company have been renovated atleast once in the past ten years with the exception of the printing press  
E) '100 Dresses', an online apparel store has its head office just next to 'Paramount Consultants'. Since '100 Dresses' has set up an online customer grievance and retrieval of sales have increased by 20%

**Explanation:-** Only option 2 gives a supportive statement for the mentioned statement as the statement talks of the company going online, thus the answer option should support the idea of online functioning.

Option 1 talks office space, Option 3 talks about bigger cubicle, Option 4 discusses renovation and option 5 presents the idea of following someone elses path, which all are irrelevant to the statement provided and the idea of online functioning.

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 88**

Nine people - P, Q, R, S, T, U, V, W and X live on nine different floors of a building but not necessarily in the same order. The lowermost floor of the building is numbered one, the floor above that is numbered two and so on till the topmost floor is numbered nine.

T lives on floor numbered seven. Only one person lives between T and X. Only three people live between X and Q. S lives on an even numbered floor immediately above U. U does not live on the lowermost floor. P lives immediately below W. R lives on an even numbered floor but not floor numbered six. Only three people live between R and V.

Four of the following five are alike in a certain way based on the given arrangement and hence form a group. Which of the following does not belong to that group?

- ✓A) PT   B) VP   C) UX   D) SR   E) UQ

**Explanation:-**

9	W
8	P
7	T
6	V
5	X
4	S
3	U
2	R
1	Q

All except VP are the pairs which live in alternate floors

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 89**

Nine people - P, Q, R, S, T, U, V, W and X live on nine different floors of a building but not necessarily in the same order. The lowermost floor of the building is numbered one, the floor above that is numbered two and so on till the topmost floor is numbered nine.

T lives on floor numbered seven. Only one person lives between T and X. Only three people live between X and Q. S lives on an even numbered floor immediately above U. U does not live on the lowermost floor. P lives immediately below W. R lives on an even numbered floor but not floor numbered six. Only three people live between R and V.

Which of the following statements is true regarding V?

- ✓A) V lives on a floor immediately below T   B) V lives on an odd numbered floor  
C) V lives on a floor immediately above W   D) Only three people live between V and P  
E) None of the given statements is true

**Explanation:-**

9	W
8	P
7	T
6	V
5	X
4	S
3	U
2	R
1	Q

V lives on floor immediately below T

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 90**

Nine people - P, Q, R, S, T, U, V, W and X live on nine different floors of a building but not necessarily in the same order. The lowermost floor of the building is numbered one, the floor above that is numbered two and so on till the topmost floor is numbered nine.

T lives on floor numbered seven. Only one person lives between T and X. Only three people live between X and Q. S lives on an even numbered floor immediately above U. U does not live on the lowermost floor. P lives immediately below W. R lives on an even numbered floor but not floor numbered six. Only three people live between R and V.

Who amongst the following lives on a floor immediately above as well as immediately below X?

- A) P, S   B) U, V    C) V, S   D) R, U   E) W, R

**Explanation:-**

9	W
8	P
7	T
6	V
5	X
4	S
3	U
2	R
1	Q

V, S live immediately below and above X

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 91**

Nine people - P, Q, R, S, T, U, V, W and X live on nine different floors of a building but not necessarily in the same order. The lowermost floor of the building is numbered one, the floor above that is numbered two and so on till the topmost floor is numbered nine.

T lives on floor numbered seven. Only one person lives between T and X. Only three people live between X and Q. S lives on an even numbered floor immediately above U. U does not live on the lowermost floor. P lives immediately below W. R lives on an even numbered floor but not floor numbered six. Only three people live between R and V.

If in the given arrangement P interchanges its position with S and Q interchanges its position with V then who amongst the following will live on a floor exactly between S and Q?

- A) T   B) R   C) P   D) X   E) V

**Explanation:-** If in the given arrangement P interchanges its position with S and Q interchanges its position with V then arrangement is as follows.

9	W
8	S
7	T
6	Q
5	X
4	P
3	U
2	R
1	V

**DIRECTIONS for the question:** Read the information given below and answer the question that follows.

**Question No. : 92**

Nine people - P, Q, R, S, T, U, V, W and X live on nine different floors of a building but not necessarily in the same order. The lowermost floor of the building is numbered one, the floor above that is numbered two and so on till the topmost floor is numbered nine.

T lives on floor numbered seven. Only one person lives between T and X. Only three people live between X and Q. S lives on an even numbered floor immediately above U. U does not live on the lowermost floor. P lives immediately below W. R lives on an even numbered floor but not floor numbered six. Only three people live between R and V.

Who amongst the following lives on floor numbered three?

- A) V   B) W   C) P   D) Q    E) U

**Explanation:-**

9	W
8	P
7	T
6	V
5	X
4	S
3	U
2	R
1	Q

U lives on floor numbered three.

**DIRECTION for the question:** Read the information given and answer the question that follows.

**Question No. : 93**

"It's a common belief that using cell phones can develop cancer due to harmful radiation. However, since the last decade, the number of cellphone users has increased eightfold whereas deaths due to brain cancer have decreased by half. It can therefore be said that this belief is actually a myth"- CEO of a cellphone company.

Which of the following statements weakens the CEO's statement?

- A) According to many studies, occurrence of cancer also depends on the proximity of an individual to the source of radiations such as transmission towers
- B) Cell phones emit radiations which are similar to those used for wireless satellite communications in remote areas
- C) On introduction of microwave ovens about 15 years ago, similar facts had surfaced but microwave ovens survived the last of time
- D) Research and technological intervention in cancer treatment over the past 12 years has decrease the number of fatalities by more than 70%
- E) The study to correlate cellphone usage and cancer was conducted independently by government as well as non-government sources

**Explanation:-** Only option 4 weakens the given statement. The assumption made by the CEO is that radiation emitted are harmless and hence decrease in deaths due to cancer. Option 4 negates this by saying that development in the field of medical sciences has brought the rate of death down.

**DIRECTIONS for the question:** The question below consist of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and mark

**Question No. : 94**

Who amongst G, H, I, J and K completed the least number of projects? (Each person completed different number of projects)

I. H completed more projects than K. Only one person completed less projects than K. J completed more projects than both I and G.

II. I did not complete second highest number of projects. H completed more projects than I. G completed more projects than K but less than H.

- A) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question
- B) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
- C) If the data either in statement I alone or in statement II alone are sufficient to answer the question.
- D) If the data in both the statements I and II together are not sufficient to answer the question
- E) If the data in both statements I and II together are necessary to answer the question.

**Explanation:-** Statement1  $H > K$  and  $J > I, G$   
 Statement2 I is not second highest and  $H > I$  and  $H > G > K$   
 one person is less than K So by using both statements together answer is I

**DIRECTIONS for the question:** The question below consist of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and mark

**Question No. : 95**

In a straight line of six people- B, C, D, E, F and G, who sits second from the right end of the line?(Note: All the people are facing north)

I. E sits second from the left end of the line. B is an immediate neighbour of E. G sits fourth to the right of B.

II. C sits third from the left end of the line. Only one person sits between C and B. E sits to the immediate right of B.

- A) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question
- B) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
- C) If the data either in statement I alone or in statement II alone are sufficient to answer the question.
- D) If the data in both the statements I and II together are not sufficient to answer the question
- E) If the data in both statements I and II together are necessary to answer the question.

**Explanation:-** From first statement, we can infer the following sequence;  
 BE\_\_G\_  
 So clearly B sits second from the right end of the line  
 From second statement following sequences are possible;  
 BEC\_\_\_ or \_\_C\_BE  
 So we can't be sure about who will sit at second from the right end of the line.



## Actual MH-CET 2016

**DIRECTIONS for the question:** The question below consist of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and mark

**Question No. : 96**

A certain number of boxes have been stacked one above the other. How many boxes are there in the stack?

I. Only three boxes are kept between U and H. S is kept immediately below U. Only two boxes are kept between S and B.  
II. Only one box is kept between H and W. There are only four boxes between W and the box kept at the top. There is only one box above B.

- A) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question
- B) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
- C) If the data either in statement I alone or in statement II alone are sufficient to answer the question.
- D) If the data in both the statements I and II together are not sufficient to answer the question
- E) If the data in both statements I and II together are necessary to answer the question.

**Explanation:-** From first statement the information provided doesn't give us the exact no. of boxes that are stacked up, as quite a lot of cases are possible.

From second statement,

B	B
	H
W	W
H	

We are given a constraint for no. of boxes at top, but no info is provided for no. of boxes below W.

Combining Both statements,

B
U
S
W
H

So we get a specific sequence, by combining both the statements and hence 8 boxes are stacked up.

**DIRECTIONS for the question:** The question below consist of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and mark

**Question No. : 97**

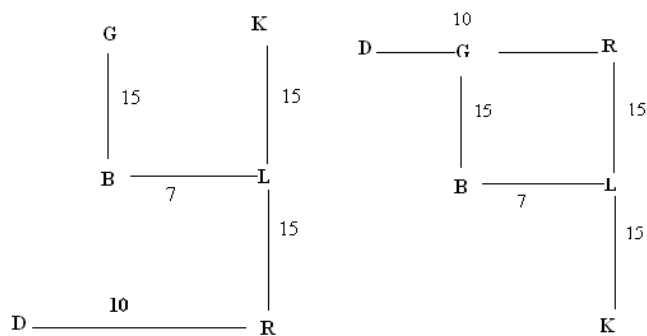
How far is Point D from Point L?

I. Point B is 15m to the south of Point G. Point L is 7m to the east of Point B. Point L is exactly between points K and R such that points K, L and R form a straight line of 30m. Point D is 10m to the west of Point R.

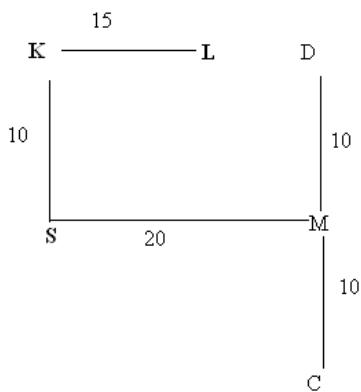
II. Point L is 15m to the east of Point K. Point K is 10m to the north of Point S. Point S is 20m to the west of point M. Point M is exactly between points D and C such that points D, M and C form a straight line of 20m. Point C is to the south of point M.

- A) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question
- B) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
- ✓C) If the data either in statement I alone or in statement II alone are sufficient to answer the question.
- D) If the data in both the statements I and II together are not sufficient to answer the question
- E) If the data in both statements I and II together are necessary to answer the question.

**Explanation:-** From statement I, Two sequences are possible;



And in both the cases the Distance of point D from point L, i.e.  $\sqrt{15^2+10^2}$



In this case the distance between point D and point L is 5m  
So both the statements are individually sufficient to answer the question.

**DIRECTIONS for the question:** The question below consist of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and mark

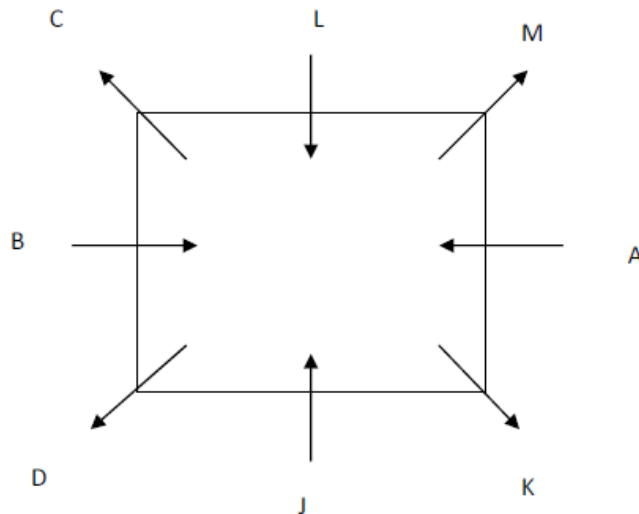
**Question No. : 98**

Eight people- A, B, C, D, J, K, L and M are sitting around a square table but not necessarily in the same order. The people sitting at the middle of the sides are facing the centre and the ones sitting at the corners are facing outside(i.e. opposite to the centre). Which direction is A facing?

I. C sits second to the left of M. Only three people sit between C and K. B sits third to the right of K. J is neither an immediate neighbour of M nor B. D faces outside.

II. Only three people sit between J and L. A sits second to the right of J. M sits to the immediate right of A. Only two people sit between M and B. C faces outside.

- A) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question
- B) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
- C) If the data either in statement I alone or in statement II alone are sufficient to answer the question.
- D) If the data in both the statements I and II together are not sufficient to answer the question
- E) If the data in both statements I and II together are necessary to answer the question.



**Explanation:-**

*Both statements are required*

**DIRECTION for the question:** Read the information given and answer the question that follows.

**Question No. : 99**

The Government of State B has recently issued a notice for stalling the post-construction process of building 'S'- built by Builder N. The construction of the building was complete and the residents were informed that they would be given the possession of their flats in around four months time.

Which of the following supports the decision of the Government, of stalling the post-construction process of building 'S'?

- A) The design of building 'S' is exactly the same as the design of building Y which has been built by another builder
- B) The builder has almost doubled this price per flat of building 'S' in the past three years due to its rising popularity
- C) It was recently noticed by government officials that the builder N built four more floors in building 'S' as compared to the original plan
- D) In a recent earthquake in State A, a neighbouring state, a few buildings build by builder N were among the other buildings which collapsed
- E) There have been several complaints like leakage and lack of 24 hour water and electricity supply by residents in other buildings of builder N

**Explanation:-** There is clear violation of government guidelines by this builder and option C will support the government's decision of stalling the post construction process.

**DIRECTION for the question:** Read the information given and answer the question that follows.

**Question No. : 100**

Although steel sector generates 56% of the revenue of State X, an international investment house-Lee and Stem is not interested in investing in steel sector of State X. According to the investment house's policy, no investments are made in a sector until the returns to the investment are expected to be atleast 42%.

Which of the following can be concluded from the given statement?

- A. Lee and Stem do not expect a return of 42% from the steel sector in State X.
- B. Sectors which already generate high returns do not need investments from foreign investment houses.
- C. According to Lee and Stem, the highest revenue generating sector for State X would fail to provide even half of its investments in return.
- D. after investments from Lee and Stem, the pharmaceutical sector will surpass steel sector in terms of revenue generation for the State.

A) Both (A) & (C)   B) Only(C)   C) Both (A) & (D)   D) Both (B) & (D)    E) Only (A)

**Explanation:-** As investor is not interested so they are not expecting 42% return on their investment. Hence option 5.

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**Section : Verbal Usage & Reading Comprehension**

**DIRECTION for the question:** In this question, four words are given in bold. One of these words given in bold may be wrongly spelt or inappropriate. In the context of the sentence. Find out the word that is inappropriately or wrongly spelt, if any. That word is your answer. If all the words given in bold are correctly spelt or appropriate in the context of the sentence, then mark 'All correct' as your answer.

**Question No. : 101**

The policy **implementation** at our end was **lacks** of and required serious **tightening** on the part of **regulators**.

A) policy    B) lacks   C) tightening   D) regulators   E) All correct

**Explanation:-** 'lacks' is being used incorrectly. It should be 'lacking' as the sentence is in Past Continuous tense

**DIRECTION for the question:** In this question, four words are given in bold. One of these words given in bold may be wrongly spelt or inappropriate. In the context of the sentence. Find out the word that is inappropriately or wrongly spelt, if any. That word is your answer. If all the words given in bold are correctly spelt or appropriate in the context of the sentence, then mark 'All correct' as your answer.

**Question No. : 102**

My heart isn't **simple** or **straightforward**, it's a **complicated mess** of wants and needs.

A) simple   B) straightforward   C) complicated   D) mess    E) All correct

**Explanation:-** All correct

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**DIRECTION for the question:** In this question, four words are given in bold. One of these words given in bold may be wrongly spelt or inappropriate. In the context of the sentence. Find out the word that is inappropriately or wrongly spelt, if any. That word is your answer. If all the words given in bold are correctly spelt or appropriate in the context of the sentence, then mark 'All correct' as your answer.

**Question No. : 103**

A **stilted heron laboured** up into the air and **dove** into the river.

A) stilted   B) heron   C) labored   D) dove    E) All correct

**Explanation:-** the sentence is correct.

## Actual MH-CET 2016

**DIRECTION for the question:** In this question, four words are given in bold. One of these words given in bold may be wrongly spelt or inappropriate. In the context of the sentence. Find out the word that is inappropriately or wrongly spelt, if any. That word is your answer. If all the words given in bold are correctly spelt or appropriate in the context of the sentence, then mark 'All correct' as your answer.

**Question No. : 104**

Tears **gushed** from my eyes and a **piercing pain crept** up my throat like a spider.

- A) gushed B) piercing C) pain D) crept  E) All correct

**Explanation:-** All correct

**DIRECTION for the question:** In this question, four words are given in bold. One of these words given in bold may be wrongly spelt or inappropriate. In the context of the sentence. Find out the word that is inappropriately or wrongly spelt, if any. That word is your answer. If all the words given in bold are correctly spelt or appropriate in the context of the sentence, then mark 'All correct' as your answer.

**Question No. : 105**

**Gazing** up into the darkness I saw myself as a creature driven and **derided** by **vanity**, and my eyes burned with **anguish** and anger.

- A) Gazing B) Derided C) anity D) Anguish  E) All correct

**Explanation:-** All correct

**DIRECTIONS for the question:** In the question, there are five sentences (A), (B), (C), (D) and (E). Four of these five sentences contribute to one main idea when these sentences are formed into a paragraph. One sentence does not contribute to that main idea. That sentence is your answer.

**Question No. : 106**

Which of the following sentences does not contribute to the main idea of the paragraph?

- A. Software is eating the world but we are presented with an abundance of value being generated for consumers.
- B. Except that this time, there hasn't been half as much noise from, internet users- or in the media- as there was in the case of Free Basics plan.
- C. As per a news article, Telecom companies wish to curb Internet speed to 64 Kbps in order to ensure fair usage.
- D. While the debate around Net neutrality in the country seems to have been settled for now, Internet activists and telecom companies could be at loggerheads very soon once again.
- E. This was in response to a Trai Consultation paper that recommended download speed in a broadband connection to ensure equitable access to usage.

- A) A B) B C) C D) D E) E

**Explanation:-** Statement A is the misfit as it talks about software whereas the rest of the statements talk about internet and telecom industry

**DIRECTIONS for the question:** In the question, there are five sentences (A), (B), (C), (D) and (E). Four of these five sentences contribute to one main idea when these sentences are formed into a paragraph. One sentence does not contribute to that main idea. That sentence is your answer.

**Question No. : 107**

Which of the following sentences does not contribute to the main idea of the paragraph?

- A. Scientists are about to learn exactly what spending a year in space does to a person, after two astronauts returned from a 340 day trip to the International Space Station.
- B. Commander Scott Kelly will be of particular interest to Nasa scientists- his identical twin, Mack, stayed on Earth.
- C. Every object in the Universe that has mass exerts gravitational pull, or force, on every other mass.
- D. That means scientists can compare the two and see exactly what sort of changes happen after a year in space.
- E. Some of those findings have already emerged. Nasa has said that Scott Kelly is now two inches taller than his brother.

- A) A B) B  C) C D) D E) E

**Explanation:-** All the statements are talking about the problems in staying in space whereas statement C talks about gravitational forces.

## Actual MH-CET 2016

**DIRECTIONS for the question:** In the question, there are five sentences (A), (B), (C), (D) and (E). Four of these five sentences contribute to one main idea when these sentences are formed into a paragraph. One sentence does not contribute to that main idea. That sentence is your answer.

**Question No. : 108**

Which of the following sentences does not contribute to the main idea of the paragraph?

- A. The authorities will soon make it difficult for so-called wilful defaulters from raising fresh equity or debt from the public.
- B. Bad credit loans can offer a number of advantages that can make one's life easier.
- C. The move will mark yet another offset by the Government to crack down on the problem of bad loans.
- D. A wilful defaulter is a company or individual who borrowed money and has no intention of paying it back.
- E. The authorities will, however, allow such entities to raise funds through rights issues or share sales to institutional investors.

A) A B) B C) C D) D  E) E

**Explanation:-** In E option, 'such entities' is mentioned and nowhere it is being talked about, so it is an odd one out.

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**DIRECTIONS for the question:** In the question, there are five sentences (A), (B), (C), (D) and (E). Four of these five sentences contribute to one main idea when these sentences are formed into a paragraph. One sentence does not contribute to that main idea. That sentence is your answer.

**Question No. : 109**

Which of the following sentences does not contribute to the main idea of the paragraph?

- A. Houses these days provide very limited space to develop such interests such as gardening or growing smaller farm animals.
- B. Home sales rose about 15% in the October-December quarter to 78 million sq. ft. from the preceding quarter across the country's top eight property markets.
- C. After a lull of almost two years in the luxury residential sector, high-end developments are making a comeback in the city.
- D. The country's most valuable property has been spurred by rising demand.
- E. In a slightly slow market, both the pricing of the product and the project itself matter to end-users.

A) A B) B C) C D) D E) E

**Explanation:-** All the statements talk about house selling whereas A talks about other activities.

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**DIRECTIONS for the question:** In the question, there are five sentences (A), (B), (C), (D) and (E). Four of these five sentences contribute to one main idea when these sentences are formed into a paragraph. One sentence does not contribute to that main idea. That sentence is your answer.

**Question No. : 110**

Which of the following sentences does not contribute to the main idea of the paragraph?

- A. From next year, two-wheelers will have to have a headlight that will light up as soon as the engine is turned on.
- B. The Government has issued a notification that all new two-wheelers manufactured in the country from next year must have a provision of automatic headlamp on (AHD) like Daytime Running Lamps found on cars.
- C. No horsepower figures have been released but the two-wheeler manufacturer has conveyed that its new range of bikes is among the safest ones across the globe.
- D. Once this system is fitted in two-wheelers, riders won't have a switch to turn the headlight off as it would be automatic.
- E. Two-wheelers, without AHD, as a single category of vehicles accounted for the highest number of total road crashes (32,524) in 2014.

A) A B) B  C) C D) D E) E

**Explanation:-** The paragraph is talking about AHD for two-wheelers except option C which talks about bikes and nothing about AHD.

**DIRECTION for the question:** Read the information given and answer the question that follows.

**Question No. : 111**

In this question, there are two statements which can be combined into a single statement in a number of different ways without changing their meaning. Below them are given three probable starters (A), (B) and (C) of such a combined sentence. One, two, three or none of them may be correct. Decide upon which is/are correct, if any and mark the option which denotes your answer. If none of the three starters is suitable mark none as your answer

The most common measure of inequality in the Gini co-efficient where a score of zero means perfect equality and a score of one means that one person gets everything. In only one large country, Brazil, has the co-efficient come down from 0.59 to 0.55.

A. Brazil is the only one large ....      B. Being the most common measure....      C. Though a score of zero....

A) Only(A)&(B)    B) Only (B)&(C)    C) All (A), (B) & (C)    D) Only (A)     E) None

**Explanation:-** In this, only option C fits in best but it is not in the option, so option 5 is the best choice.

**DIRECTION for the question:** Read the information given and answer the question that follows.

**Question No. : 112**

In this question, there are two statements which can be combined into a single statement in a number of different ways without changing their meaning. Below them are given three probable starters (A), (B) and (C) of such a combined sentence. One, two, three or none of them may be correct. Decide upon which is/are correct, if any and mark the option which denotes your answer. If none of the three starters is suitable mark none as your answer.

In 1960, Jacques Piccard, a Swiss Oceanographer, and Don Walsh reached the floor of the Mariana Trench, the Ocean's deepest point, of the Pacific Island of Guam,. It is nearly 11,000 metres down, for comparison Mount Everest rises 8,848 metres.

A. While in 1980 Jacques      B. In comparison to Mount Everest      C. Located off the Pacific Island, Guam....

A) Only(A) & (B)    B) Only (B)    C) Only (C)     D) Only (B) & (C)    E) None

**Explanation:-** Only B and C can be the probable starters which would not change the meaning.

**DIRECTION for the question:** Read the information given and answer the question that follows.

**Question No. : 113**

In this question, there are two statements which can be combined into a single statement in a number of different ways without changing their meaning. Below them are given three probable starters (A), (B) and (C) of such a combined sentence. One, two, three or none of them may be correct. Decide upon which is/are correct, if any and mark the option which denotes your answer. If none of the three starters is suitable mark none as your answer

In Britain housing associations got going in the mid 19<sup>th</sup> century but became really important in the 1980s when the government used them as an alternative to council owned housing. Responsive to local needs, housing associating could also borrow without adding to public debt.

A. Housing associations responsive....      B. Though the government saw....      C. In the mid 19<sup>th</sup> century....

A) Only(A) & (C)    B) Only (B)    C) Only (A)     D) All (A), (B) & (C)    E) None

**Explanation:-** All options can be used to join sentences.

**DIRECTION for the question:** Read the information given and answer the question that follows.

**Question No. : 114**

In this question, there are two statements which can be combined into a single statement in a number of different ways without changing their meaning. Below them are given three probable starters (A), (B) and (C) of such a combined sentence. One, two, three or none of them may be correct. Decide upon which is/are correct, if any and mark the option which denotes your answer. If none of the three starters is suitable mark none as your answer

While the need for rural electrification was recognised in the 1950s, the first major initiative was the establishment of the Rural Electric Corporation in 1969. Its main objective is to finance and promote rural electrification all over the country.

A. Though the need....      B. Establishing the rural electrification ....      C. Rural electrification was....

A) Only(A) & (C)     B) Only (A) & (B)    C) All (A), (B) & (C)    D) Only (C)    E) None

**Explanation:-** Only A and B can be used as starters.

**DIRECTION for the question:** Read the information given and answer the question that follows.

**Question No. : 115**

In this question, there are two statements which can be combined into a single statement in a number of different ways without changing their meaning. Below them are given three probable starters (A), (B) and (C) of such a combined sentence. One, two, three or none of them may be correct. Decide upon which is/are correct, if any and mark the option which denotes your answer. If none of the three starters is suitable mark none as your answer

Many CEOs particularly in America take the view that the best view to contribute to the common good is to succeed as businesses. Furthermore, they feel that more money they can save by not being fixed so highly, the more they have to open new plants and generate jobs.

A. While one view of many CEOs....      B. The best way to....      C. Since many CEOs....

A) Only(A)    B) Only (B) & (C)    C) Only (B)    D) Only (A) & (B)    E) None

**Explanation:-** Only A can be the starter.

**DIRECTIONS for the question:** Read the following passage carefully and answer the questions given below it. Certain words/phrases are printed in **bold** to help you to locate them while answering some of the questions.

**Question No. : 116**

"Sarcasm is the lowest form of wit but the highest form of intelligence/' wrote that connoisseur of wit, Oscar Wilde. Whether sarcasm is a sign of intelligence or not, communication experts and marriage counsellors alike typically advise us to stay away from this particular form of expression. The reason is simple: sarcasm expresses the poisonous sting of contempt, hurting others and harming relationships. As a form of communication, sarcasm takes on the debt of conflict.

And yet, our research suggests, there may also be some unexpected benefits from sarcasm, greater creativity. The use of sarcasm, in fact, promotes creativity for those on both the giving and receiving end of sarcastic exchanges. Instead of avoiding sarcasm completely in the office, the research suggests sarcasm, used with care and in moderation, can be effectively used and trigger some creative sparks.

Sarcasm involves constructing or exposing contradictions between intended meanings. The most common form of verbal irony, sarcasm is often used to humorously convey thinly veiled disapproval or scorn. "Pat, don't work so hard, a boss might say upon catching his assistant surfing the Internet. Early research on sarcasm explored how people interpret statements and found that, as expected, sarcasm makes a statement sound more critical. Participants rated sarcasm to be more condemning than literal statements.

Why might sarcasm enhance creativity? Because the brain must think creatively to understand or convey a sarcastic comment, sarcasm may lead to clearer and more creative thinking. To either create or understand sarcasm, tone must overcome the contradiction between the literal and actual meanings of the sarcastic expressions. This is a process that activates, and is facilitated by, abstraction, which in turn promotes creative thinking. Consider the following example, which comes from a conversation one of my friends had a few weeks before getting married. His fiancée woke him up as he was soundly asleep at night to tell him about some new ideas she has for their upcoming wedding next month -many of which were quite expensive. Adam responded with some ideas of his own: "**Why don't we get Paul McCartney to sing, Barack Obama to give a benediction and Amy Schumer to entertain people.**" His comment required his fiancée to recognize that there is a distinction between the surface level meaning of the sentence and the meaning that was intended.

According to the passage, which of the following is most nearly the same in meaning as the word 'CONDEMNING' as used in the passage?

A) Repressed    B) Losing    C) Deeming    D) Critical    E) Convicted

**Explanation:-** The word 'condemning' means insulting and in the context it means repressed. Repressed means restrained Deeming means consider or judge



**DIRECTIONS for the question:** Read the following passage carefully and answer the questions given below it. Certain words/phrases are printed in **bold** to help you to locate them while answering some of the questions.

**Question No. : 117**

"Sarcasm is the lowest form of wit but the highest form of intelligence/" wrote that connoisseur of wit, Oscar Wilde. Whether sarcasm is a sign of intelligence or not, communication experts and marriage counsellors alike typically advise us to stay away from this particular form of expression. The reason is simple: sarcasm expresses the poisonous sting of contempt, hurting others and harming relationships. As a form of communication, sarcasm takes on the debt of conflict.

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According to the passage, what does sarcasm require

- A. Its intention is to cause hurt in the most profound manner possible.
  - B. In order to understand it, one need to be able to grasp abstract context.
  - C. Its usage involves the employment of words contrary to the intended meaning.
- A) Only (C)   B) Only (A)   C) Only (B) and (C)   D) Only (A) & (B)    E) All the three (A), (B) & (C)

**Explanation:-** All the three options are given in the passage and contributes to the definition of sarcasm.

**DIRECTIONS for the question:** Read the following passage carefully and answer the questions given below it. Certain words/phrases are printed in **bold** to help you to locate them while answering some of the questions.

**Question No. : 118**

"Sarcasm is the lowest form of wit but the highest form of intelligence/" wrote that connoisseur of wit, Oscar Wilde. Whether sarcasm is a sign of intelligence or not, communication experts and marriage counsellors alike typically advise us to stay away from this particular form of expression. The reason is simple: sarcasm expresses the poisonous sting of contempt, hurting others and harming relationships. As a form of communication, sarcasm takes on the debt of conflict.

And yet, our research suggests, there may also be some unexpected benefits from sarcasm, greater creativity. The use of sarcasm, in fact, promotes creativity for those on both the giving and receiving end of sarcastic exchanges. Instead of avoiding sarcasm completely in the office, the research suggests sarcasm, used with care and in moderation, can be effectively used and trigger some creative sparks.

Sarcasm involves constructing or exposing contradictions between intended meanings. The most common form of verbal irony, sarcasm is often used to humorously convey thinly veiled disapproval or scorn. "Pat, don't work so hard, a boss might say upon catching his assistant surfing the Internet. Early research on sarcasm explored how people interpret statements and found that, as expected, sarcasm makes a statement sound more critical. Participants rated sarcasm to be more condemning than literal statements.

Why might sarcasm enhance creativity? Because the brain must think creatively to understand or convey a sarcastic comment, sarcasm may lead to clearer and more creative thinking. To either create or understand sarcasm, one must overcome the contradiction between the literal and actual meanings of the sarcastic expressions. This is a process that activates, and is facilitated by, abstraction, which in turn promotes creative thinking. Consider the following example, which comes from a conversation one of my friends had a few weeks before getting married. His fiancée woke him up as he was soundly asleep at night to tell him about some new ideas she has for their upcoming wedding next month -many of which were quite expensive. Adam responded with some ideas of his own: "**Why don't we get Paul McCartney to sing, Barack Obama to give a benediction and Amy Schumer to entertain people.**" His comment required his fiancée to recognize that there is a distinction between the surface level meaning of the sentence and the meaning that was intended.

Which of the following is true according to the author of the passage?

- A. Words used in sarcasm are to be considered for their literal meaning.
  - B. Sarcasm does involve an element of humour in it.
  - C. Tone of voice is one of the essential components of conveying sarcasm.
- A) Only (A) and (C)    B) Only (B) and (C)   C) Only (A) and (B)   D) All the three (A), (B) & (C)   E) Only (B)

**Explanation:-** Only B and C options are true w.r.t passage whereas A is false as can be judged from lines "Sarcasm involves..... thinly veiled disapproval or scorn." and "To either create or .....meanings of the sarcastic expressions. "

**DIRECTIONS for the question:** Read the following passage carefully and answer the questions given below it. Certain words/phrases are printed in **bold** to help you to locate them while answering some of the questions.

**Question No. : 119**

"Sarcasm is the lowest form of wit but the highest form of intelligence/" wrote that connoisseur of wit, Oscar Wilde. Whether sarcasm is a sign of intelligence or not, communication experts and marriage counsellors alike typically advise us to stay away from this particular form of expression. The reason is simple: sarcasm expresses the poisonous sting of contempt, hurting others and harming relationships. As a form of communication, sarcasm takes on the debt of conflict.

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Sarcasm involves constructing or exposing contradictions between intended meanings. The most common form of verbal irony, sarcasm is often used to humorously convey thinly veiled disapproval or scorn. "Pat, don't work so hard, a boss might say upon catching his assistant surfing the Internet. Early research on sarcasm explored how people interpret statements and found that, as expected, sarcasm makes a statement sound more critical. Participants rated sarcasm to be more condemning than literal statements.

Why might sarcasm enhance creativity? Because the brain must think creatively to understand or convey a sarcastic comment, sarcasm may lead to clearer and more creative thinking. To either create or understand sarcasm, one must overcome the contradiction between the literal and actual meanings of the sarcastic expressions. This is a process that activates, and is facilitated by, abstraction, which in turn promotes creative thinking. Consider the following example, which comes from a conversation one of my friends had a few weeks before getting married. His fiancée woke him up as he was soundly asleep at night to tell him about some new ideas she has for their upcoming wedding next month -many of which were quite expensive. Adam responded with some ideas of his own: "**Why don't we get Paul McCartney to sing, Barack Obama to give a benediction and Amy Schumer to entertain people.**" His comment required his fiancée to recognize that there is a distinction between the surface level meaning of the sentence and the meaning that was intended.

According to the passage, which of the following is not true?

- A. One needs to exercise restraint while using sarcasm.
  - B. Sarcasm has the potential to damage relationships.
  - C. Using sarcasm is devoid of any merits.
- A) All (A), (B) & (C)    B) Only (B) and (C)    C) Only (A)     D) Only (C)    E) Only (A) & (B)

**Explanation:-** Only option C is false, rest options are true w.r.t. passage.

**DIRECTIONS for the question:** Read the following passage carefully and answer the questions given below it. Certain words/phrases are printed in **bold** to help you to locate them while answering some of the questions.

**Question No. : 120**

"Sarcasm is the lowest form of wit but the highest form of intelligence/" wrote that connoisseur of wit, Oscar Wilde. Whether sarcasm is a sign of intelligence or not, communication experts and marriage counsellors alike typically advise us to stay away from this particular form of expression. The reason is simple: sarcasm expresses the poisonous sting of contempt, hurting others and harming relationships. As a form of communication, sarcasm takes on the debt of conflict.

And yet, our research suggests, there may also be some unexpected benefits from sarcasm, greater creativity. The use of sarcasm, in fact, promotes creativity for those on both the giving and receiving end of sarcastic exchanges. Instead of avoiding sarcasm completely in the office, the research suggests sarcasm, used with care and in moderation, can be effectively used and trigger some creative sparks.

Sarcasm involves constructing or exposing contradictions between intended meanings. The most common form of verbal irony, sarcasm is often used to humorously convey thinly veiled disapproval or scorn. "Pat, don't work so hard, a boss might say upon catching his assistant surfing the Internet. Early research on sarcasm explored how people interpret statements and found that, as expected, sarcasm makes a statement sound more critical. Participants rated sarcasm to be more condemning than literal statements.

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What did the author's friend actually mean when he said the following, "**Why don't we get Paul McCartney to sing, Barack Obama to give a benediction and Amy Schumer to entertain people**"?

- A) The idea his fiancée gave for the wedding was a good one and needed encouragement
- B) Paul McCartney, Barack Obama and Amy Schumer could easily be asked to be present at his wedding.
- C) He was friends with Paul McCartney, Barack Obama and Amy Schumer.
- D) People standing his wedding would love to hear Paul McCartney, Barack Obama and Amy Schumer perform.
- E) Other than those given as options.

**Explanation:-** These words are used in sarcasm which actually intended to show the fiancée that how expensive ideas she was giving so option 5 should be the best choice.

**DIRECTIONS for the question:** Rearrange the following sentences (A), (B), (C), (D), (E) and (F) into a meaningful paragraph and then answer the question given below it.

**Question No. : 121**

- A. Apart from the presence of this pollutant, last month, as representatives from all over the world concluded their climate summit in Paris, officials in Beijing issued China's "red alerts" for smog.
- B. Look of the sky in China and it's easy to think that the apocalypse is now.
- C. This north-eastern city saw the harmful pollutant PM 2.5 at a level 40 times greater than what the World Health Organisation considers safe.
- D. The country's dismal air isn't news to those who have to breathe it, or to the international community.
- E. But recent reports about the "dooms day" smog in Shenyang were alarming.
- F. As a result of this warning schools were closed and drivers were told to stay off the road every other day, depending on whether their license plate ended with an even or odd number.

Which of the following should be third sentence after the rearrangement?

- A) C   B) B   C) A   D) D    E) E

**Explanation:-** The correct order of sentences is BDECAF. B talks about China, the country being talked about. Then B and D make mandatory pair of noun pronoun due to words "China" and "The country's". Followed by E which talks about the smog and gives contradiction to sentence D. CA makes a mandatory pair because of 'this pollutant' and F concludes the sentence.

**DIRECTIONS for the question:** Rearrange the following sentences (A), (B), (C), (D), (E) and (F) into a meaningful paragraph and then answer the question given below it.

**Question No. : 122**

- A. Apart from the presence of this pollutant, last month, as representatives from all over the world concluded their climate summit in Paris, officials in Beijing issued China's "red alerts" for smog.
- B. Look of the sky in China and it's easy to think that the apocalypse is now.
- C. This north-eastern city saw the harmful pollutant PM 2.5 at a level 40 times greater than what the World Health Organisation considers safe.
- D. The country's dismal air isn't news to those who have to breathe it, or to the international community.
- E. But recent reports about the "dooms day" smog in Shenyang were alarming.
- F. As a result of this warning schools were closed and drivers were told to stay off the road every other day, depending on whether their license plate ended with an even or odd number.

Which of the following should be fourth sentence after the rearrangement?

- A) A   B) B    C) C   D) E   E) D

**Explanation:-** The correct order of sentences is BDECAF. B talks about China, the country being talked about. Then B and D make mandatory pair of noun pronoun due to words "China" and "The country's". Followed by E which talks about the smog and gives contradiction to sentence D. CA makes a mandatory pair because of 'this pollutant' and F concludes the sentence.

**DIRECTIONS for the question:** Rearrange the following sentences (A), (B), (C), (D), (E) and (F) into a meaningful paragraph and then answer the question given below it.

**Question No. : 123**

- A. Apart from the presence of this pollutant, last month, as representatives from all over the world concluded their climate summit in Paris, officials in Beijing issued China's "red alerts" for smog.
- B. Look of the sky in China and it's easy to think that the apocalypse is now.
- C. This north-eastern city saw the harmful pollutant PM 2.5 at a level 40 times greater than what the World Health Organisation considers safe.
- D. The country's dismal air isn't news to those who have to breathe it, or to the international community.
- E. But recent reports about the "dooms day" smog in Shenyang were alarming.
- F. As a result of this warning schools were closed and drivers were told to stay off the road every other day, depending on whether their license plate ended with an even or odd number.

Which of the following should be sixth (last) sentence after the rearrangement?

- A) F   B) B   C) A   D) C   E) E

**Explanation:-** The correct order of sentences is BDECAF. B talks about China, the country being talked about. Then B and D make mandatory pair of noun pronoun due to words "China" and "The country's". Followed by E which talks about the smog and gives contradiction to sentence D. CA makes a mandatory pair because of 'this pollutant' and F concludes the sentence.

**DIRECTIONS for the question:** Rearrange the following sentences (A), (B), (C), (D), (E) and (F) into a meaningful paragraph and then answer the question given below it.

**Question No. : 124**

- A. Apart from the presence of this pollutant, last month, as representatives from all over the world concluded their climate summit in Paris, officials in Beijing issued China's "red alerts" for smog.
- B. Look of the sky in China and it's easy to think that the apocalypse is now.
- C. This north-eastern city saw the harmful pollutant PM 2.5 at a level 40 times greater than what the World Health Organisation considers safe.
- D. The country's dismal air isn't news to those who have to breathe it, or to the international community.
- E. But recent reports about the "dooms day" smog in Shenyang were alarming.
- F. As a result of this warning schools were closed and drivers were told to stay off the road every other day, depending on whether their license plate ended with an even or odd number.

Which of the following should be first sentence after the rearrangement?

- A) F   B) A    C) B   D) E   E) D

**Explanation:-** The correct order of sentences is BDECAF. B talks about China, the country being talked about. Then B and D make mandatory pair of noun pronoun due to words "China" and "The country's". Followed by E which talks about the smog and gives contradiction to sentence D. CA makes a mandatory pair because of 'this pollutant' and F concludes the sentence.

**DIRECTIONS for the question:** Rearrange the following sentences (A), (B), (C), (D), (E) and (F) into a meaningful paragraph and then answer the question given below it.

**Question No. : 125**

- A. Apart from the presence of this pollutant, last month, as representatives from all over the world concluded their climate summit in Paris, officials in Beijing issued China's "red alerts" for smog.
- B. Look of the sky in China and it's easy to think that the apocalypse is now.
- C. This north-eastern city saw the harmful pollutant PM 2.5 at a level 40 times greater than what the World Health Organisation considers safe.
- D. The country's dismal air isn't news to those who have to breathe it, or to the international community.
- E. But recent reports about the "dooms day" smog in Shenyang were alarming.
- F. As a result of this warning schools were closed and drivers were told to stay off the road every other day, depending on whether their license plate ended with an even or odd number.

Which of the following should be second sentence after the rearrangement?

- A) B   B) A   C) E    D) D   E) C

**Explanation:-** The correct order of sentences is BDECAF. B talks about China, the country being talked about. Then B and D make mandatory pair of noun pronoun due to words "China" and "The country's". Followed by E which talks about the smog and gives contradiction to sentence D. CA makes a mandatory pair because of 'this pollutant' and F concludes the sentence.

**DIRECTION for the question:** In the question, a word is given in **bold CAPITALS** is followed by five words. Find out, if any, the one which is either most **nearly the same** in meaning **OR opposite** of the word given in bold.

**Question No. : 126**

**CONVALESCENT**

- A) healing   B) antithesis   C) convergent   D) blend   E) ligament

**Explanation:-** Convalescent means recovering from illness and hence, the answer should be healing i.e. synonym.

**DIRECTION for the question:** In the question, a word is given in **bold CAPITALS** is followed by five words. Find out, if any, the one which is either most **nearly the same** in meaning **OR opposite** of the word given in bold.

**Question No. : 127**

**RUMBUSTIOUS**

- A) boisterous   B) incompetent   C) pertinent   D) acute   E) immigrant

**Explanation:-** Rumbustious and boisterous are synonyms.

**DIRECTION for the question:** In the question, a word is given in **bold CAPITALS** is followed by five words. Find out, if any, the one which is either most **nearly the same** in meaning **OR opposite** of the word given in bold.

**Question No. : 128**

**MITIGATE**

A) insect B) entrance C) disclaim D) persuade  E) aggravate

**Explanation:-** Mitigate means to lessen and the opposite will be 'aggravate'

**DIRECTION for the question:** In the question, a word is given in **bold CAPITALS** is followed by five words. Find out, if any, the one which is either most **nearly the same** in meaning **OR opposite** of the word given in bold.

**Question No. : 129**

**EXEMPLIFY**

A) release B) effort C) embody D) nuance  E) expand

**Explanation:-** Exemplify means to illustrate and hence expand which means the same.

**DIRECTION for the question:** In the question, a word is given in **bold CAPITALS** is followed by five words. Find out, if any, the one which is either most **nearly the same** in meaning **OR opposite** of the word given in bold.

**Question No. : 130**

**GRUFF**

A) soft B) stout C) swollen D) grass E) Round

**Explanation:-** Gruff means rough and hence soft would be the antonym.

**DIRECTIONS for the question:** Read the passage and answer the question based on it.

**Question No. : 131**

It is hard to exaggerate the decrepitude of infrastructure in much of the rich world. One in three railway bridges in Germany is over 100 years old as are half of London's water mains. In America the average bridge is 42 years old and the average dam 52. Traffic jams on urban highways cost America over \$100 billion in wasted time and fuel each year, congestion at airports costs \$22 billion and another \$150 billion is lost to power outages. The B20, the business arm of the G20, a club of big economies, estimates that the global backlog of spending needed to bring infrastructure up to scratch will reach \$15 trillion-\$20 trillion by 2030. McKinsey, a consultancy, reckons that in 2007-12 investment in infrastructure in rich countries was about 2.5% of GDP a year when it should have been 3.5%. If anything, the problem is becoming more acute as some governments whose finances have been racked by the crisis cut back.

However, over the past six years, the cost of repairing old infrastructure or building new projects has been much cheaper than normal, thanks both to rock-bottom interest rates and ample spare capacity in the construction industry. Arcadis, an infrastructure consultancy, reckons building costs in Britain, for example, were 20% lower in the aftermath of the financial crisis. The most striking examples of the impact of the infrastructure development on the economy are in emerging markets, paving roads has helped double school attendance by girls in Morocco. Improved sanitation has helped reduce child mortality in India by over 50%. But the impact in rich countries is quite great. Standard & Poor's, a rating agency, reckons that the activity spurred by increasing government spending on infrastructure by 1% of GDP would leave the economy 11.7% bigger after three years in America, 2.5% bigger in Britain and 1.4% in the Euro zone.

Planning constraints play their part: It takes four years just to get the permits for the average European power project, according to McKinsey. Crossrail, a train line running under London, was first mooted in 1974 but is not due to be completed until 2018. The 'Juncker Plan' which is support to mobilize €315 billion of mostly private investment in infrastructure in Europe, was announced with great aplomb, last November, the website taking possible projects has yet to be launched. There is also lots of scope for modernisation without undue disruption: adding a layer of plastic on top of an asphalt road can increase its lifespan by a third. Investments in technology can make better use of existing infrastructure without adding a brick at considerably low cost. New digital monitoring systems, for example, have increased the capacity of Frankfurt Airport from 150,000 passengers a day to 200,000, by providing advance warning of impending bottlenecks. Such repairs and improvements typically yield higher returns than more grandiose projects. They are also much quicker to initiate. Western politicians searching for a way to pep up growth in light of the current uncertainty about the health of the world economy need look no further.

Which of the following best sums up the author's view of infrastructure development?

- A) There is nothing that can be done to remedy the present state of infrastructure
- B) Infrastructure development should be entrusted to private entities
- C) The utilisation of technology will assist in infrastructure development
- D) Global backlog of infrastructure will be wiped out by 2030
- E) The share of GDP devoted to infrastructure should be lowered

**Explanation:-** As the passage talks of use of technology and its effect on the infrastructure development, Option 3 is the best answer

**DIRECTIONS for the question:** Read the passage and answer the question based on it.

**Question No. : 132**

It is hard to exaggerate the decrepitude of infrastructure in much of the rich world. One in three railway bridges in Germany is over 100 years old as are half of London's water mains. In America the average bridge is 42 years old and the average dam 52. Traffic jams on urban highways cost America over \$100 billion in wasted time and fuel each year, congestion at airports costs \$22 billion and another \$150 billion is lost to power outages. The B20, the business arm of the G20, a club of big economies, estimates that the global backlog of spending needed to bring infrastructure up to scratch will reach \$15 trillion-\$20 trillion by 2030. McKinsey, a consultancy, reckons that in 2007-12 investment in infrastructure in rich countries was about 2.5% of GDP a year when it should have been 3.5%. If anything, the problem is becoming more acute as some governments whose finances have been racked by the crisis cut back.

However, over the past six years, the cost of repairing old infrastructure or building new projects has been much cheaper than normal, thanks both to rock-bottom interest rates and ample spare capacity in the construction industry. Arcadis, an infrastructure consultancy, reckons building costs in Britain, for example, were 20% lower in the aftermath of the financial crisis. The most striking examples of the impact of the infrastructure development on the economy are in emerging markets, paving roads has helped double school attendance by girls in Morocco. Improved sanitation has helped reduce child mortality in India by over 50%. But the impact in rich countries is quite great. Standard & Poor's, a rating agency, reckons that the activity spurred by increasing government spending on infrastructure by 1% of GDP would leave the economy 11.7% bigger after three years in America, 2.5% bigger in Britain and 1.4% in the Euro zone.

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Which of the following is the central theme of the passage?

- A) Infrastructure in developed countries has not been maintained as it should
- B) After the financial crisis, developed countries are unable to invest in infrastructure
- C) Engineering and Infrastructure in Europe and America is a marvel
- D) The developed economy is in the midst of a crisis from which it will not recover soon
- E) Infrastructure improvement can lead to improvement in economy

**Explanation:-** As in the passage author has tried showing the correlation of Infrastructure development and its impact on economy. The central theme comes out to be option E.

**DIRECTIONS for the question:** Read the passage and answer the question based on it.

**Question No. : 133**

It is hard to exaggerate the decrepitude of infrastructure in much of the rich world. One in three railway bridges in Germany is over 100 years old as are half of London's water mains. In America the average bridge is 42 years old and the average dam 52. Traffic jams on urban highways cost America over \$100 billion in wasted time and fuel each year, congestion at airports costs \$22 billion and another \$150 billion is lost to power outages. The B20, the business arm of the G20, a club of big economies, estimates that the global backlog of spending needed to bring infrastructure up to scratch will reach \$15 trillion-\$20 trillion by 2030. McKinsey, a consultancy, reckons that in 2007-12 investment in infrastructure in rich countries was about 2.5% of GDP a year when it should have been 3.5%. If anything, the problem is becoming more acute as some governments whose finances have been racked by the crisis cut back.

However, over the past six years, the cost of repairing old infrastructure or building new projects has been much cheaper than normal, thanks both to rock-bottom interest rates and ample spare capacity in the construction industry. Arcadis, an infrastructure consultancy, reckons building costs in Britain, for example, were 20% lower in the aftermath of the financial crisis. The most striking examples of the impact of the infrastructure development on the economy are in emerging markets, paving roads has helped double school attendance by girls in Morocco. Improved sanitation has helped reduce child mortality in India by over 50%. But the impact in rich countries is quite great. Standard & Poor's, a rating agency, reckons that the activity spurred by increasing government spending on infrastructure by 1% of GDP would leave the economy 11.7% bigger after three years in America, 2.5% bigger in Britain and 1.4% in the Euro zone.

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What does the author want to convey through the GDP?

- A) Infrastructure development can boost the economy of developed countries tremendously
- B) GDP is not a true indicator of social and economic development
- C) The GDP of developing countries is growing faster than developed ones
- D) Despite investment of a greater proportion of GDP in infrastructure, the impact on growth is negligible
- E) Other than those given as options

**Explanation:-** As per lines "But the impact in rich countries is ..... 2.5% bigger in Britain and 1.4% in the Euro zone." option 1 is the correct answer.

**DIRECTIONS for the question:** Read the passage and answer the question based on it.

**Question No. : 134**

It is hard to exaggerate the decrepitude of infrastructure in much of the rich world. One in three railway bridges in Germany is over 100 years old as are half of London's water mains. In America the average bridge is 42 years old and the average dam 52. Traffic jams on urban highways cost America over \$100 billion in wasted time and fuel each year, congestion at airports costs \$22 billion and another \$150 billion is lost to power outages. The B20, the business arm of the G20, a club of big economies, estimates that the global backlog of spending needed to bring infrastructure up to scratch will reach \$15 trillion-\$20 trillion by 2030. McKinsey, a consultancy, reckons that in 2007-12 investment in infrastructure in rich countries was about 2.5% of GDP a year when it should have been 3.5%. If anything, the problem is becoming more acute as some governments whose finances have been racked by the crisis cut back.

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Which of the following cannot be inferred from the passage?

- A. Much of the infrastructure in Europe though ancient is in good repair.
  - B. At present there is no way developing countries can reduce the infrastructure deficit.
  - C. Infrastructure development is time consuming but need not be expensive.
- A) Only (A)     B) Only (A) & (B)    C) Only (A) & (C)    D) All (A), (B) & (C)    E) None of (A), (B) & (C)

**Explanation:-** Option A cannot be inferred as lines "Planning constraints play their part:..... last November, the website taking possible projects has yet to be launched." clearly state that projects are running slow in Europe.  
Option B cannot be inferred as nothing about the developing countries is mentioned in the passage



**DIRECTIONS for the question:** Read the passage and answer the question based on it.

**Question No. : 135**

It is hard to exaggerate the decrepitude of infrastructure in much of the rich world. One in three railway bridges in Germany is over 100 years old as are half of London's water mains. In America the average bridge is 42 years old and the average dam 52. Traffic jams on urban highways cost America over \$100 billion in wasted time and fuel each year, congestion at airports costs \$22 billion and another \$150 billion is lost to power outages. The B20, the business arm of the G20, a club of big economies, estimates that the global backlog of spending needed to bring infrastructure up to scratch will reach \$15 trillion-\$20 trillion by 2030. McKinsey, a consultancy, reckons that in 2007-12 investment in infrastructure in rich countries was about 2.5% of GDP a year when it should have been 3.5%. If anything, the problem is becoming more acute as some governments whose finances have been racked by the crisis cut back.

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Which of the following factors has impacted infrastructure in developed countries?

- A. Severe and unusual weather conditions.
- B. Sluggish project implementation.
- C. Financial crisis.

A) Only (A)   B) Only (A) & (B)    C) Only (B) & (C)   D) All (A), (B) & (C)   E) Only (B)

**Explanation:-** Option B is mentioned in lines "Planning constraints play ..... the website taking possible projects has yet to be launched."

Option C is mentioned in lines "If anything, the problem is becoming more acute as some governments whose finances have been racked by the crisis cut back."

**DIRECTION for the questions:** Which of the phrases given below the sentence should replace the word/phrase given in bold in the sentence to make it grammatically correct? If the sentence is correct as it is given and no correction is required, select 'No correction required' as your answer.

**Question No. : 136**

Factors that **are likely** to impact rural demand include global agricultural commodity prices and monsoons,

- A) are like   B) is likely   C) are liked   D) are liking    E) No correction required

**Explanation:-** No correction required

**DIRECTION for the questions:** Which of the phrases given below the sentence should replace the word/phrase given in bold in the sentence to make it grammatically correct? If the sentence is correct as it is given and no correction is required, select 'No correction required' as your answer.

**Question No. : 137**

This is not the first time the minister's name **has come up** in this controversial deal.

- A) have come up    B) has come up   C) have upcoming   D) has coming up   E) No correction required

**Explanation:-** With 'has' third form of verb is to be used, hence has come up.

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**DIRECTION for the questions:** Which of the phrases given below the sentence should replace the word/phrase given in bold in the sentence to make it grammatically correct? If the sentence is correct as it is given and no correction is required, select 'No correction required' as your answer.

**Question No. : 138**

The Central Bank has ordered banks **to get tough by** wilful defaulters and have a tough set of rules in place.

- A) to getting tougher   B) for getting tough   C) too get tough on    D) to get tough with   E) No correction required

**Explanation:-** It should be 'to get tough with' as 'by' is used to identify the agent performing the action.

**DIRECTION for the questions:** Which of the phrases given below the sentence should replace the word/phrase given in bold in the sentence to make it grammatically correct? If the sentence is correct as it is given and no correction is required, select 'No correction required' as your answer.

**Question No. : 139**

Demand in rural India will probably stay under stress, largely **on account off** usage of poor fertilisers,

- A) on account of   B) on account for   C) accounting of   D) on account from   E) No correction required

**Explanation:-** 'on account of' means because of whereas 'off' is used when it is to be shown that something is moving away.

**DIRECTION for the questions:** Which of the phrases given below the sentence should replace the word/phrase given in bold in the sentence to make it grammatically correct? If the sentence is correct as it is given and no correction is required, select 'No correction required' as your answer.

**Question No. : 140**

**The fact that** it had to issue a connection about how much coal the country burns reflects the government's failure to track emissions from coal mines.

- A) A fact which   B) The factual that   C) Factually   D) In fact that    E) No correction required

**Explanation:-** No correction required

**DIRECTIONS for the question:** The passage given contains blanks, choose the best choice in each case from the words in the options and mark your answer accordingly.

**Question No. : 141**

Suppose you put \$ 100 in a savings account that earns 10% interest each year, after five years how much will you have? This was a question posed in a multiple-choice quiz by Standard and Poor's, a rating agency. The answers (\_\_\_\_) were "less than \$150", "exactly \$150" and "more than \$150". The intention was to test whether respondents (**/**) compound interest, in addition to basic mathematics. Alas, not that many did: just one-third of them answered three out of five similar multiple-choice questions (**/**). Scandinavians are the most financially literate: 70% were able to answer three questions; the corresponding figure for Angolans and Albanians was 15%. While education plays a large role in (**/**) financial literacy, the link with GDP per person is also remarkably strong. Research shows that in developed countries, knowledge (**/**) a U shaped curve with middle aged adults performing best while in developing countries financial literacy is best among the young. But worryingly many countries remain in a 1960s time warp.

- A) volunteer   B) suggest    C) proffered   D) compromised   E) guessing

**Explanation:-** As a list of options is given ahead of the blank therefore a word similar to 'given' should be used. Proffered means given.

**DIRECTIONS for the question:** The passage given contains blanks, choose the best choice in each case from the words in the options and mark your answer accordingly.

**Question No. : 142**

Suppose you put \$ 100 in a savings account that earns 10% interest each year, after five years how much will you have? This was a question posed in a multiple-choice quiz by Standard and Poor's, a rating agency. The answers (J) were "less than \$150", "exactly \$150" and "more than \$150". The intention was to test whether respondents (\_\_\_\_) compound interest, in addition to basic mathematics. Alas, not that many did: just one-third of them answered three out of five similar multiple-choice questions (J). Scandinavians are the most financially literate: 70% were able to answer three questions; the corresponding figure for Angolans and Albanians was 15%. While education plays a large role in (J) financial literacy, the link with GDP per person is also remarkably strong. Research shows that in developed countries, knowledge (J) a U shaped curve with middle aged adults performing best while in developing countries financial literacy is best among the young. But worryingly many countries remain in a 1960s time warp.

A) familiar B) comprehension C) valued D) decide  E) understood

**Explanation:-** 'understood' suits well when it comes to studying.

**DIRECTIONS for the question:** The passage given contains blanks, choose the best choice in each case from the words in the options and mark your answer accordingly.

**Question No. : 143**

Suppose you put \$ 100 in a savings account that earns 10% interest each year, after five years how much will you have? This was a question posed in a multiple-choice quiz by Standard and Poor's, a rating agency. The answers (J) were "less than \$150", "exactly \$150" and "more than \$150". The intention was to test whether respondents (J) compound interest, in addition to basic mathematics. Alas, not that many did: just one-third of them answered three out of five similar multiple-choice questions (\_\_\_\_). Scandinavians are the most financially literate: 70% were able to answer three questions; the corresponding figure for Angolans and Albanians was 15%. While education plays a large role in (J) financial literacy, the link with GDP per person is also remarkably strong. Research shows that in developed countries, knowledge (J) a U shaped curve with middle aged adults performing best while in developing countries financial literacy is best among the young. But worryingly many countries remain in a 1960s time warp.

A) truthfully  B) correctly C) flawless D) precisely E) instead

**Explanation:-** 'correctly' suits well as an answer can be either correct or incorrect.

**DIRECTIONS for the question:** The passage given contains blanks, choose the best choice in each case from the words in the options and mark your answer accordingly.

**Question No. : 144**

Suppose you put \$ 100 in a savings account that earns 10% interest each year, after five years how much will you have? This was a question posed in a multiple-choice quiz by Standard and Poor's, a rating agency. The answers (J) were "less than \$150", "exactly \$150" and "more than \$150". The intention was to test whether respondents (J) compound interest, in addition to basic mathematics. Alas, not that many did: just one-third of them answered three out of five similar multiple-choice questions (J). Scandinavians are the most financially literate: 70% were able to answer three questions; the corresponding figure for Angolans and Albanians was 15%. While education plays a large role in (\_\_\_\_) financial literacy, the link with GDP per person is also remarkably strong. Research shows that in developed countries, knowledge (J) a U shaped curve with middle aged adults performing best while in developing countries financial literacy is best among the young. But worryingly many countries remain in a 1960s time warp.

A) standard  B) determining C) shape D) discovering E) participating

**Explanation:-** Education provides financial literacy. therefore it is the 'determining' factor also.

**DIRECTIONS for the question:** The passage given contains blanks, choose the best choice in each case from the words in the options and mark your answer accordingly.

**Question No. : 145**

Suppose you put \$ 100 in a savings account that earns 10% interest each year, after five years how much will you have? This was a question posed in a multiple-choice quiz by Standard and Poor's, a rating agency. The answers (J) were "less than \$150", "exactly \$150" and "more than \$150". The intention was to test whether respondents (J) compound interest, in addition to basic mathematics. Alas, not that many did: just one-third of them answered three out of five similar multiple-choice questions (J). Scandinavians are the most financially literate: 70% were able to answer three questions; the corresponding figure for Angolans and Albanians was 15%. While education plays a large role in (J) financial literacy, the link with GDP per person is also remarkably strong. Research shows that in developed countries, knowledge (\_\_\_\_\_) a U shaped curve with middle aged adults performing best while in developing countries financial literacy is best among the young. But worryingly many countries remain in a 1960s time warp.

A) follows B) abides  C) gained D) create E) develops

**Explanation:-** 'gained' should be the best choice as the successive sentence talks about past.

**DIRECTIONS for the question:** The passage given contains blanks, choose the best choice in each case from the words in the options and mark your answer accordingly.

**Question No. : 146**

An agricultural economist reports that the largest boost to farm income comes from investment in rural roads compared in other forms of agri-related investment. This offers a key (\_\_\_\_) that our policymaking obsession with the technical means of raising yields has ignored: farm production, too, is (J) by the market. If you provide farmers easier (J) to markets for farm inputs and output, they would use it to raise output and incomes. If the best seeds and fertiliser boost production in an interior village which cannot evacuate the (J) harvest to a market outside, the only result would be to depress local prices and farmers' incomes. On the other hand, if farmers can take their produce to buyers outside, their incomes would (J).

A) moral B) input C) potence  D) insight E) symbol

**Explanation:-** 'insight' means an accurate and deep understanding. Therefore its the best fit as the report offers an understanding of what has gone wrong with the policymaking.

**DIRECTIONS for the question:** The passage given contains blanks, choose the best choice in each case from the words in the options and mark your answer accordingly.

**Question No. : 147**

An agricultural economist reports that the largest boost to farm income comes from investment in rural roads compared in other forms of agri-related investment. This offers a key (J) that our policymaking obsession with the technical means of raising yields has ignored: farm production, too, is (\_\_\_\_) by the market. If you provide farmers easier (J) to markets for farm inputs and output, they would use it to raise output and incomes. If the best seeds and fertiliser boost production in an interior village which cannot evacuate the (J) harvest to a market outside, the only result would be to depress local prices and farmers' incomes. On the other hand, if farmers can take their produce to buyers outside, their incomes would (J).

A) resolved B) inclined  C) determined D) drive E) hamper

**Explanation:-** 'determined by' is the correct idiomatic usage. Also resolved cannot be used as farm production is not the solution given.

**DIRECTIONS for the question:** The passage given contains blanks, choose the best choice in each case from the words in the options and mark your answer accordingly.

**Question No. : 148**

An agricultural economist reports that the largest boost to farm income comes from investment in rural roads compared in other forms of agri-related investment. This offers a key (✓) that our policymaking obsession with the technical means of raising yields has ignored: farm production, too, is (✓) by the market. If you provide farmers easier (\_\_\_\_) to markets for farm inputs and output, they would use it to raise output and incomes. If the best seeds and fertiliser boost production in an interior village which cannot evacuate the (✓) harvest to a market outside, the only result would be to depress local prices and farmers' incomes. On the other hand, if farmers can take their produce to buyers outside, their incomes would (✓).

- ✓A) access   B) outlet   C) acquire   D) pass   E) advent

**Explanation:-** As can be inferred from first sentence of passage it is difficult for farmers to get their produce to market due to 'rural roads', option A fits in the best

**DIRECTIONS for the question:** The passage given contains blanks, choose the best choice in each case from the words in the options and mark your answer accordingly.

**Question No. : 149**

An agricultural economist reports that the largest boost to farm income comes from investment in rural roads compared in other forms of agri-related investment. This offers a key (✓) that our policymaking obsession with the technical means of raising yields has ignored: farm production, too, is (✓) by the market. If you provide farmers easier (✓) to markets for farm inputs and output, they would use it to raise output and incomes. If the best seeds and fertiliser boost production in an interior village which cannot evacuate the (\_\_\_\_) harvest to a market outside, the only result would be to depress local prices and farmers' incomes. On the other hand, if farmers can take their produce to buyers outside, their incomes would (✓).

- A) plunge   ✓B) surplus   C) plethora   D) oversupply   E) superficial

**Explanation:-** Boost in production will lead to 'surplus' harvest.

**DIRECTIONS for the question:** The passage given contains blanks, choose the best choice in each case from the words in the options and mark your answer accordingly.

**Question No. : 150**

An agricultural economist reports that the largest boost to farm income comes from investment in rural roads compared in other forms of agri-related investment. This offers a key (✓) that our policymaking obsession with the technical means of raising yields has ignored: farm production, too, is (✓) by the market. If you provide farmers easier (✓) to markets for farm inputs and output, they would use it to raise output and incomes. If the best seeds and fertiliser boost production in an interior village which cannot evacuate the (✓) harvest to a market outside, the only result would be to depress local prices and farmers' incomes. On the other hand, if farmers can take their produce to buyers outside, their incomes would (\_\_\_\_).

- A) raise   ✓B) amplify   C) halt   D) lifted   E) Plummet

**Explanation:-** A word similar to rise should fit the blank as if farmers will sell their crop they will earn money. Therefore Amplify fits best. Although raise was also a good option but the form of tense in which the word is doesnot support it.

**Section : Quantitative Ability**

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 151**

A and B started a business by investing Rs. 2400 and Rs. 3600 respectively. At the end of 4<sup>th</sup> month from the start of the business, C joined with Rs. 'X'. After 8 months from the start of the business, B withdrew Rs. 600. If C's share is Rs. 8000 in the annual profit of Rs. 22,500, what was the amount that C invested in the business?

- A) Rs. 7200    B) Rs. 5800    C) Rs.4000     D) Rs. 4800    E) Rs. 8800

**Explanation:-** A's investment =  $2400 \times 12 = 28800$

B's investment =  $3600 \times 8 + 3000 \times 4 = 40800$

C's investment =  $x \times 8 = 8x$

A: B: C =  $28800 : 40800 : 8x = 3600 : 5100 : x$

Given :  $x / (8700+x) \times 22500 = 8000$

Solving we get, x (C's investment) = 4800

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 152**

There are 4 consecutive odd numbers,  $x_1, x_2, x_3$  and  $x_4$  and three consecutive even numbers  $y_1, y_2$  and  $y_3$ . The average of the odd numbers is 6 less than the average of the even numbers. If the sum of the three even numbers is 16 less than the sum of the four odd numbers, what is the average of  $x_1, x_2, x_3$  and  $x_4$ ?

- A) 30    B) 35    C) 38    D) 32     E) 34

**Explanation:-** Let the odd numbers be  $2x+1, 2x+3, 2x+5$  &  $2x+7$

Their sum =  $8x+16$  and average =  $2x+4$

Let the even numbers be  $y, y+2$  &  $y+4$

Their sum =  $3y+6$  and average =  $y+2$

Given :

$8x+16 - (3y+6) = 16 \Rightarrow 8x - 3y = 6 \dots (i)$

$y+2 - (2x+4) = 6 \Rightarrow y - 2x = 8 \dots (ii)$

Solving (i) & (ii)

$x = 15 \Rightarrow$  the respective odd numbers are = 31, 33, 35, 37

Average =  $(33 + 35)/2 = 34$

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 153**

A, B, C, D, E and F live on different floors in the same building having six floors numbered one to six (the ground floor is numbered 1, the floor above it, number 2 and so on and the topmost floor is numbered 6).

A lives on an even numbered floor. There are two floors between the floors on which D and F live. F lives on a floor above D's floor. D does not live on floor number 2. B does not live on an odd numbered floor. C does not live on any of the floors below F's floor. E does not live on a floor immediately above or immediately below the floor on which B lives.

Who amongst the following live on the floors exactly between D and F?

- A) E, B    B) C, B    C) E, C     D) A, E    E) B, A

**Explanation:-**

The correct order from 6<sup>th</sup> to 1<sup>st</sup> is **B C F E A D**

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 154**

A, B, C, D, E and F live on different floors in the same building having six floors numbered one to six (the ground floor is numbered 1, the floor above it, number 2 and so on and the topmost floor is numbered 6).

A lives on an even numbered floor. There are two floors between the floors on which D and F live. F lives on a floor above D's floor. D does not live on floor number 2. B does not live on an odd numbered floor. C does not live on any of the floors below F's floor. E does not live on a floor immediately above or immediately below the floor on which B lives.

On which of the following floors does B live?

- A) 6<sup>th</sup>   B) 4<sup>th</sup>   C) 2<sup>nd</sup>   D) 5<sup>th</sup>   E) Cannot be determined

**Explanation:-**

The correct order from 6<sup>th</sup> to 1<sup>st</sup> is **B C F E A D**

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 155**

In a five letter English word (which may or may not be a meaningful English word), there are two letters between L and P. S is not placed immediately next to L. There is only one letter between S and A. S is towards the right of A. S is not placed immediately next to E.

Which of the following is correct with respect to the word thus formed?

- A) E is at one of the extreme ends of the word   B) P is not placed immediately next to A  
C) There are two letters between A and E in the word thus formed    D) P is placed second to the right of E  
E) None is correct

**Explanation:-**

The word so formed is LEAPS.

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 156**

In a five letter English word (which may or may not be a meaningful English word), there are two letters between L and P. S is not placed immediately next to L. There is only one letter between S and A. S is towards the right of A. S is not placed immediately next to E.

Which of the following words will be formed based on the given conditions?

- A) SPAEL   B) PEALS    C) LEAPS   D) SEPAL   E) LAPSE

**Explanation:-**

The word so formed is LEAPS.

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 157**

Six people- K, L, M, N, O and P live on six different floors of a building not necessarily in the same order. The lower most floor of the building is numbered 1, the one above that is numbered 2 and so on till the top most floor is numbered 6.

L lives on an even numbered floor. L lives immediately below K's floor and immediately above M's floor. P lives immediately above N's floor. P lives on an even numbered floor. O does not live on floor number 4.

Four of the following five are alike in a certain way based on the given arrangement and hence form a group. Which of the following does not belong to that group?

- A) MN   B) OL   C) KM   D) LP    E) PK

**Explanation:-**

From the given information, we get the following arrangement:

person	floor
O	6
K	5
L	4
M	3
P	2
N	1

In all the given groups, there is only one person living in between their floors except PK, which has 2 people. Hence option 5.

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 158**

Six people- K, L, M, N, O and P live on six different floors of a building not necessarily in the same order. The lower most floor of the building is numbered 1, the one above that is numbered 2 and so on till the top most floor is numbered 6.

L lives on an even numbered floor. L lives immediately below K's floor and immediately above M's floor. P lives immediately above N's floor. P lives on an even numbered floor. O does not live on floor number 4.

Who amongst the following lives on floor number 2 ?

- A) K    B) P   C) L   D) M   E) O

**Explanation:-**

From the given information, we get the following arrangement:

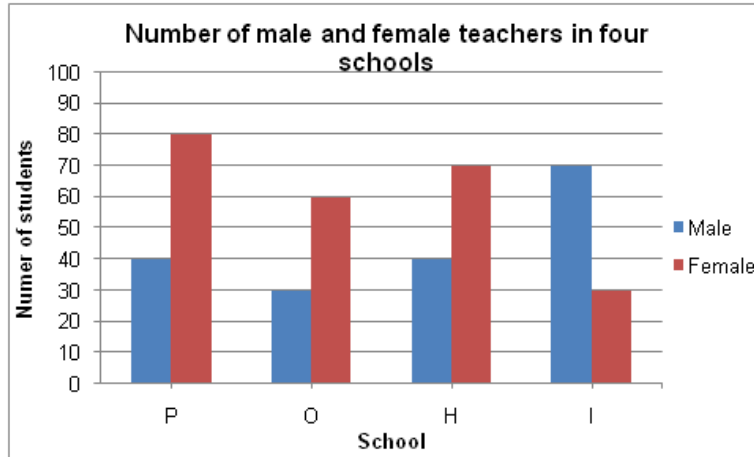
person	floor
O	6
K	5
L	4
M	3
P	2
N	1

P lives on the floor number 2. Hence option 2.



**DIRECTIONS for the question:** Analyse the graph/s given below and answer the question that follows.

**Question No. : 159**



What is the difference between average numbered male and female teachers in the given schools?

- A) 10   B) 20   C) 5   D) 25    E) 15

$$\text{Average number of male teachers} = \frac{40 + 30 + 40 + 70}{4} = 45$$

$$\text{Average number of female teachers} = \frac{80 + 60 + 70 + 30}{4} = 60$$

**Explanation:-**

$$\text{Required difference} = 60 - 45 = 15$$

**DIRECTIONS for the question:** Analyse the graph/s given below and answer the question that follows.

**Question No. : 160**

**Profit earned by three companies over the years (Rs. in crores)**



Approximately, what is the average profit earned by company B over the given years?

- A) Rs. 107 Crores   B) Rs. 132 crores   C) Rs. 124 crores    D) Rs. 117 crores   E) Rs. 97 crores

**Explanation:-**

Average profit earned by company B over the given years

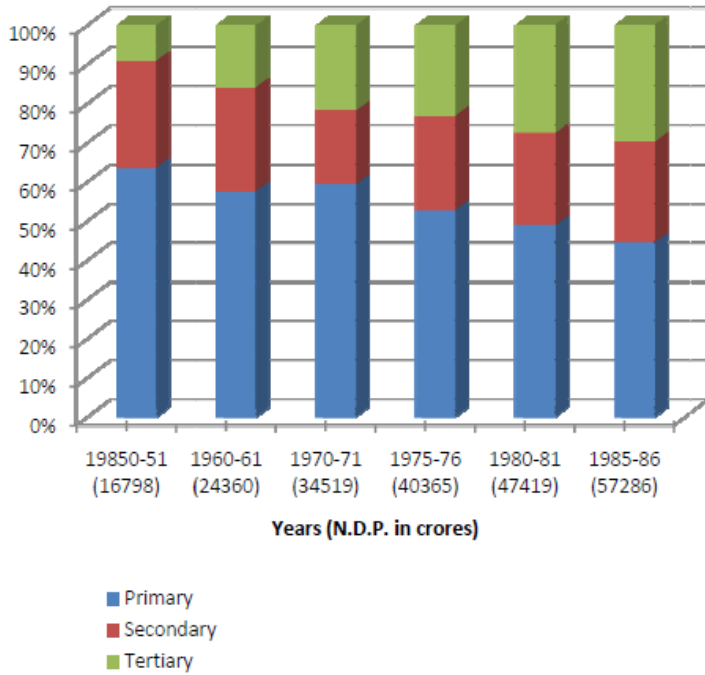
$$= \frac{90 + 110 + 120 + 140 + 105 + 135}{6} = 116.67 \sim 117 \text{ crores}$$

## Actual MH-CET 2016

**DIRECTIONS for the question:** Analyse the graph/s given below and answer the question that follows.

**Question No. : 161**

Percentage Distribution of Domestic Produce at Factor Cost and at Constant Prices with base year 1970-71



What was the contribution (in billion rupees) of the primary sector to the N.D.P. in 1980-81?

- A) 143.7   B) 173.6   C) 189.7    D) 237.1   E) 390.5

**Explanation:-**

Contribution (in billion rupees) of the primary sector to the N.D.P. in 1980-81  
=  $\frac{50}{100} \times 47,419$   
= Rs. 237.1 billion

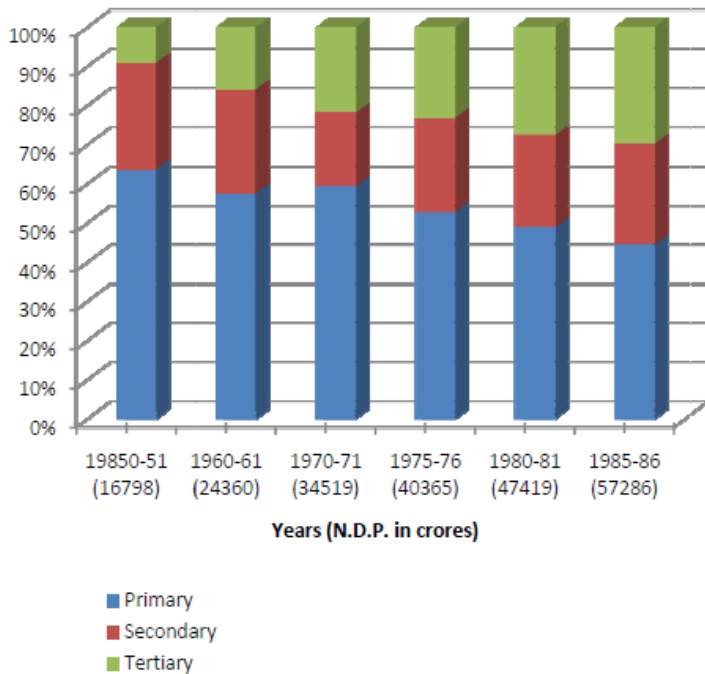
The correct answer is option 4.

## Actual MH-CET 2016

**DIRECTIONS for the question:** Analyse the graph/s given below and answer the question that follows.

**Question No. : 162**

Percentage Distribution of Domestic Produce at Factor Cost and at Constant Prices with base year 1970-71



In which year did the contribution of the tertiary sector register the maximum percentage increase with respect to previous data given?

- A) 1950-51     B) 1960-61    C) 1970-71    D) 1980-81    E) 1985-86

**Explanation:-**

Approximate percentage increase in the contribution of the tertiary sector with respect to previous data given for different intervals of time is as follows:

For 1960-61,

$$\text{Percentage increase} = \frac{16 - 10}{10} \times 100$$

$$= 6/10 \times 100 = 60\%$$

For 1970-71,

$$\text{Percentage increase} = \frac{21 - 16}{16} \times 100$$

$$5/16 \times 100 = 31.25\%$$

For 1975-76,

$$\text{Percentage increase} = \frac{24 - 21}{21} \times 100$$

$$= 3/21 \times 100 = 14.28\%$$

For 1980-81,

$$\text{Percentage increase} = \frac{26 - 24}{24} \times 100$$

$$= 2/24 \times 100 = 8.33\%$$

For 1985-86,

$$\text{Percentage increase} = \frac{31 - 26}{26} \times 100$$

$$= 5/26 \times 100 = 19.23\%$$

Therefore, percentage increase in the contribution of the tertiary sector with respect to previous data given is maximum for 1960-61.

The correct answer is option 2.

**DIRECTIONS for the question:** Mark the best option:

**Question No. : 163**

Which among  $2^{1/2}$ ,  $3^{1/3}$ ,  $4^{1/4}$ ,  $6^{1/6}$  and  $12^{1/12}$  is the largest?

- A)  $\frac{1}{2^2}$     ✓B)  $\frac{1}{3^3}$     C)  $\frac{1}{4^4}$     D)  $\frac{1}{6^6}$     E)  $\frac{1}{12^{12}}$

**Explanation:-**

$$2^{1/2} = (2^6)^{1/12} = (64)^{1/12}, 3^{1/3} = (3^4)^{1/12} = (81)^{1/12}, 4^{1/4} = (4^3)^{1/12} = (64)^{1/12}$$

$$6^{1/6} = (6^2)^{1/12} = (36)^{1/12}, 12^{1/12} = (12)^{1/12}, \Rightarrow 3^{1/3} \text{ is largest.}$$

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 164**

The number of employees in Obelix Menhir Co. is a prime number and is less than 300. The ratio of the number of employees who are graduates and above, to that of employees who are not, can possibly be:

- A) 101 : 88    B) 87 : 100    C) 110 : 111    D) 85 : 98    ✓E) 97 : 84

**Explanation:-**

The totals of all the ratios are 189, 187, 221, 183 and 181.

The only prime number out of these numbers is 181.

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 165**

When you reverse the digits of the number 13, the number increases by 18. How many other two-digit numbers increase by 18 when their digits are reversed?

- A) 5    ✓B) 6    C) 7    D) 8    E) 10

**Explanation:-**

Let digit at unit place is  $x$  and ten's place is  $y$ .

$$\therefore 10y + x - (10x + y) = 18,$$

$$9y - 9x = 18, \quad y - x = 2$$

Six Cases Other than (13, 31) are

(24, 42),

(35, 53), (46, 64) (57, 75), (68, 86)

(79, 97) are possible

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 166**

A bag contains 4 red balls, 6 blue balls and 8 pink balls. One ball is drawn at random and replaced with 3 pink balls. A second ball was drawn without replacement. What is the probability that the first ball drawn was either red or blue in colour and the second ball drawn was pink in colour?

- A) 12/21    B) 13/17    C) 11/30    D) 13/18    ✓E) None of these

**Explanation:-** Required Probability =

$$\left( \frac{4}{18} + \frac{6}{18} \right) \times \frac{11}{20} = \frac{11}{36}$$

**DIRECTIONS for the question:** Study the table/s given below and answer the question that follows.

**Question No. : 167**

Name of the publishing company	May		June	
	Percentage of published books distributed	Number of distributors	Percentage of published books distributed	Number of distributors
A	70%	15	85%	16
B	80%	10	84%	12
C	65%	13	75%	19
D	72%	8	52%	33
E	90%	6	88%	11

**Note:** All the given companies distributed the published books among its respective distributors during both the given months

In May, Company A published 100 books more than Company B. If the number of books not distributed by Company B among its distributors in May was 50% of the number of books not distributed by Company A among its distributors in the same month, what was the number of books published by Company B in May?

- ✓ A) 300   B) 400   C) 500   D) 600   E) 700

**Explanation:-** Let 'b' be the number of books Published by company B. & 'a' be the number of books Published by company A  
Therefore,  $a = b + 100$

Number of books not distributed by Company B among its distributors in May = 20% of b

Number of books not distributed by Company A among its distributors in May = 30% of a  
= 30% of (b+100)

According to question,

$$20\% \text{ of } b = 50\% (30\% \text{ of } (b+100))$$

Solving this,

$$b = 300.$$

Number of books Published by company B = 300.

## Actual MH-CET 2016

**DIRECTIONS for the question:** Study the table/s given below and answer the question that follows.

**Question No. : 168**

Name of the publishing company	May		June	
	Percentage of published books distributed	Number of distributors	Percentage of published books distributed	Number of distributors
A	70%	15	85%	16
B	80%	10	84%	12
C	65%	13	75%	19
D	72%	8	52%	33
E	90%	6	88%	11

**Note:** All the given companies distributed the published books among its respective distributors during both the given months

Number of books published by Company C in May and June was equal. If the average number of books received for each distributor of Company C in May and June was 168, what was the number of books published by Company C in June?

- ✓A) 3840   B) 3480   C) 4380   D) 4830   E) None of these

**Explanation:-** Let 'N' be number of published by company C in May.

Therefore, Number of books published by Company C in June = N

If the average number of books received for each distributor of Company C in May and June was 168

Avg = Total number of books received for each distributor of Company C in May and June / Total number of distributor of company C in May and June.

Total number of books received for each distributor of Company C in May and June =  $168 \times 32 = 5472$

$65\% \text{ of } N + 75\% \text{ of } N = 5376$

$140\% \text{ of } N = 5376$

$N = 3840$ .

**DIRECTIONS for the question:** Study the table/s given below and answer the question that follows.

**Question No. : 169**

Name of the publishing company	May		June	
	Percentage of published books distributed	Number of distributors	Percentage of published books distributed	Number of distributors
A	70%	15	85%	16
B	80%	10	84%	12
C	65%	13	75%	19
D	72%	8	52%	33
E	90%	6	88%	11

**Note:** All the given companies distributed the published books among its respective distributors during both the given months

Number of books received by each distributor of Company D in May and that by each distributor of Company E in the same month was equal Number of books published by Company E in May was what percent of number of books published by Company D in the same month?

- ✓A) 60   B) 65   C) 55   D) Cannot be determined   E) 40

Let 'D' be the published books by company D. and 'E' be the published books by E. According to the question,

$$\frac{72\% \text{ of } D}{8} = \frac{90\% \text{ of } E}{6}$$

$$\frac{D}{E} = \frac{5}{3}$$

$$\text{Required Percentage} = \frac{E}{D} \times 100 = \frac{3}{5} \times 100 = 60\%$$

**Explanation:-**

## Actual MH-CET 2016

**DIRECTIONS for the question:** Study the table/s given below and answer the question that follows.

**Question No. : 170**

Name of the publishing company	May		June	
	Percentage of published books distributed	Number of distributors	Percentage of published books distributed	Number of distributors
A	70%	15	85%	16
B	80%	10	84%	12
C	65%	13	75%	19
D	72%	8	52%	33
E	90%	6	88%	11

**Note:** All the given companies distributed the published books among its respective distributors during both the given months

In June, the difference between number of books distributed by Company B and that by Company D was 864. If number of books published by Company B in June was  $\frac{1}{3}$ <sup>rd</sup> of the number of the books published by Company D Company D in the same month, what was the number of books published by Company B in June?

- A) 2000   B) 900   C) 1500   D) 1800    E) 1200

**Explanation:-** Let 'D' be the published books by company D. and 'B' be the published books by B. According to the question,  
 $52\% \text{ of } D - 84\% \text{ of } B = 864$

Given that,  $B = \frac{1}{3} D$

$D = 3B$

$\Rightarrow 52\% \text{ of } 3B - 84\% \text{ of } B = 864$

$\Rightarrow 156\% \text{ of } B - 84\% \text{ of } B = 864$

$\Rightarrow 72\% \text{ of } D = 864$

$\Rightarrow D = 864 / .72 = 1200.$

**DIRECTIONS for the question:** Study the table/s given below and answer the question that follows.

**Question No. : 171**

Name of the publishing company	May		June	
	Percentage of published books distributed	Number of distributors	Percentage of published books distributed	Number of distributors
A	70%	15	85%	16
B	80%	10	84%	12
C	65%	13	75%	19
D	72%	8	52%	33
E	90%	6	88%	11

**Note:** All the given companies distributed the published books among its respective distributors during both the given months

If each distributor of company A received 255 books in June, what was the number of books published by Company A in June?

- A) 4800   B) 3200   C) 3840   D) 4480   E) 5120

**Explanation:-** Let 'A' be the published books by company A.

If each distributor of company A received 255 books in June,

Total number of distributors of A in June = 16

Total Number of books of company A received by distributor =  $16 \times 255 = 4080$

$\Rightarrow 85\% \text{ of } A = 4080$

$\Rightarrow A = 4080 / .85$

$\Rightarrow A = 4800$



**DIRECTIONS for the question:** Study the table/s given below and answer the question that follows.

**Question No. : 172**

Name of the publishing company	May		June	
	Percentage of published books distributed	Number of distributors	Percentage of published books distributed	Number of distributors
A	70%	15	85%	16
B	80%	10	84%	12
C	65%	13	75%	19
D	72%	8	52%	33
E	90%	6	88%	11

**Note:** All the given companies distributed the published books among its respective distributors during both the given months  
 Number of books received by each distributor of company E in June (Considering everyone gets equal number of books )was what percent less than the number of books not distributed by the same company among its distributors in the same month?

- A) 30 1/3%    B) 32 1/3%    C) 36 2/3%     D) 33 1/3%    E) 39 2/3%

Let 'E' be the published books by company E.

$$\text{Number of books received by each distributor of company E in June} = \frac{88\% \text{ of E}}{11} = 8\% \text{ of E}$$

Number of books not distributed by the same company among its distributors in the June month = 12% of E.

$$\text{Required Percentage} = \frac{(12 - 8)\% \text{ of E}}{12\% \text{ of E}} \times 100 = \frac{4}{12} \times 100 = 33\frac{1}{3}\%$$

**Explanation:-**

**DIRECTIONS for the question:** Mark the best option

**Question No. : 173**

If  $\frac{a}{b} = \frac{1}{3}$ ,  $\frac{b}{c} = 2$ ,  $\frac{c}{d} = \frac{1}{2}$ ,  $\frac{d}{e} = 3$  and  $\frac{e}{f} = \frac{1}{4}$ , then what is the value of  $\frac{abc}{def}$  ?

- A)  $\frac{3}{8}$     B)  $\frac{27}{8}$     C)  $\frac{3}{4}$     D)  $\frac{27}{4}$     E)  $\frac{1}{4}$

**Explanation:-**

$$\begin{aligned} a/d &= a/b \times b/c \times c/d = 1/3 \times 2 \times 1/2 = 1/3 \\ b/e &= b/c \times c/d \times d/e = 2 \times 1/2 \times 3 = 3 \\ c/f &= c/d \times d/e \times e/f = 1/2 \times 3 \times 1/4 = 3/8 \\ abc/def &= a/d \times b/e \times c/f = 1/3 \times 3 \times 3/8 = 3/8 \end{aligned}$$

**DIRECTIONS for the questions:** Answer the following question as per the given information.

**Question No. : 174**

A sum of money is divided among A, B, C and D in the ratio of 3 : 7:11:15 respectively. If the share of D is Rs. 3,816/- more than the share of A, then what is the total amount of money of B & C together?

- A) Rs. 4,762/-    B) Rs. 7,562/-    C) Rs. 6,678/-     D) Rs. 5,724/-    E) None of these

**Explanation:-**

Let the shares of A, B, C and D be 3x, 7x, 11x, 15x respectively. Now, the difference between D and A is 12x,  
 So  $12x = 3816 \Rightarrow x = 318$ ,  
 Hence  $B + C = 18x = 18 \times 318 = 5724$

**DIRECTIONS for the question:** Mark the best option.

**Question No. : 175**

The ages of Shivali and Tanisha are in the ratio of 11 : 7 respectively. After 8 years the ratio of their ages will be 15 : 11. What is the difference in years between their ages?

- A) 4 years   B) 10 years   C) 6 years    D) 8 years   E) None of these

**Explanation:-**

$$S / T = 11 / 7;$$

$$(S+8) / (T+8) = 15 / 11;$$

$$\Rightarrow 11S + 88 = 15T + 120;$$

replacing  $S$  by  $11T / 7$ , we get:

$$121T / 7 + 88 = 15T + 120;$$

$$T = 14 \text{ yrs.}$$

$$S = 22 \text{ yrs}$$

$$\text{Difference} = 8 \text{ yrs.}$$

So option D.

**DIRECTIONS for the question:** Mark the best option.

**Question No. : 176**

The profit earned after selling an article for Rs.998/- is the same as loss incurred after selling the article for Rs.864/-. What is the cost price of the article?

- A) Rs.978/-   B) Rs.921/-   C) Rs.980/-    D) Rs.931/-   E) None of these

**Explanation:-**

$$S.P = \text{Rs. } 998$$

$$P = 998 - C.P. \dots\dots\dots (1)$$

$$\text{Also in second case, } S.P. = 864 \text{ Rs.}$$

$$L = C.P. - 864 \dots\dots\dots (2)$$

$$\text{Given } P = L$$

$$\text{Equating 1 and 2 -}$$

$$2 C.P. = 1862$$

$$C.P. = 931 \text{ Rs.}$$

**DIRECTIONS for the question:** Mark the best option.

**Question No. : 177**

A person has a chemical of Rs. 25 per litre. In what ratio should water be mixed with that chemical so that after selling the mixture at Rs. 20/litre he may get a profit of 25%?

- A) 13 : 16   B) 12 : 15    C) 9 : 16   D) 19 : 22   E) None of these

**Explanation:-**

This can be solved using alligation.

What is required at the end of mixing is a price of  $20 / 1.25 = 16$ .

So the alligation would look like this –

Water	Mixture	Chemical
0	16	25
Hence the ratio would be $(25 - 16) : 16 = 9 : 16$		
Hence required ratio of Water : Chemical is 9:16.		

Hence option C.

**DIRECTIONS for the question:** Answer on the basis of the information given below:

**Question No. : 178**

Arun, Barun and Kiranmala start from the same place and travel in the same direction at speeds of 30, 40 and 60 km per hour respectively. Barun starts two hours after Arun. If Barun and Kiranmala overtake Arun at the same instant, how many hours after Arun did Kiranmala start?

- A) 3   B) 3.5   ✓C) 4   D) 4.5   E) 5

**Explanation:-**

Arun will cover 60 km in 2 hrs.

So Barun will take  $\frac{60}{40} = 1.5$  hrs to meet

Arun.

So in  $2 + 1.5 = 3.5$  hrs, Arun would have covered

$30 \times 3.5 = 105$  km in 3.5 hrs.

So Kiranmala will take  $\frac{105}{60} = 1.75$  hrs to

overtake Arun.

Hence Kiranmala would start after  $3.5 - 1.75 = 1.75$  hrs after Arun.

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 179**

A movie was screened for 3 days -Monday, Tuesday and Wednesday. The respective ratio between the number of spectators on Monday, Tuesday and Wednesday was 2:3:5 and the price charged for three days was in the respective ratio 2 : 3 : 4. If the difference between the amount earned on Tuesday and Wednesday was Rs. 8800, what was the total amount earned in all three days?

- A) Rs. 24,800   B) Rs. 27,500   ✓C) Rs. 26,400   D) Rs. 22,820   E) Rs. 25,200

**Explanation:-** Ratio of spectators = 2 : 3 : 5

Ratio of price charged = 2 : 3 : 4

Given :

The difference between the amount earned on Tuesday and Wednesday =  $20x - 9x = 8800 \Rightarrow x = 880$

Therefore, total amount earned =  $880(4x + 9x + 20x) = 26400$

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 180**

The circumference of a circle is 10% more than the perimeter of a square. If the difference between the area of the circle and that of the square is  $216 \text{ cm}^2$ , how much does the diagonal of the square measure? (in cm)

- A)  $14\sqrt{2}$    B) 14   ✓C)  $20\sqrt{2}$    D) 28   E) 20

**Explanation:-** Let radius of circle be 'r' and side of the square be 'a'. Given:

$$2\pi r = 1.1(4a)$$

$$2 \times \frac{22}{7} \times r = 4.4 a \Rightarrow r = \frac{7}{10} a$$

$$\text{Aslo given : } \pi r^2 - a^2 = 216$$

$$\text{Substituting the value of } r, \text{ we get: } \frac{22}{7} \times \left(\frac{7}{10}\right)^2 - a^2 = 216 \Rightarrow a = 20 \text{ cm}$$

$$\text{Diagonal of the square} = 20\sqrt{2} \text{ cm}$$

**DIRECTIONS for the question:** The question below consist of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and mark

**Question No. : 181**

A rectangular garden is surrounded by a path of uniform width of 2m. What is the breadth of the rectangular garden?

- I. If the length of the garden is reduced by 2m, it will become a square garden.  
 II. If the length of the garden is reduced by 2m, the area of the path will become  $\frac{1}{4}$  times of its original area. (External boundary of the path remains constant.)

- A) if the data in statement (i) alone is sufficient to answer the question;  
 B) if the data in statement (ii) alone is sufficient to answer the question;  
 C) if the data in both the statements together are needed;  
 D) if either statement (i) alone or statement (ii) alone suffices to answer the question;  
 E) if even by combining both the statements the answer can not be found ;

**Explanation:-** Let the original length be  $l+2$  and breadth be  $b$ :

From I :  $l+2-2 = b \Rightarrow l = b \Rightarrow$  area of the garden =  $l^2$   
 From II : After reducing length by 2m  $\Rightarrow$  length will be  $l$   
 Total area including the path =  $(l+4) \times (b+4)$   
 Area of path =  $(l+4) \times (b+4) - (lb) = \frac{1}{4} (lb)$

By combining both the statements, we get : the length and breadth.  
 Therefore it can be solved by using both the statements.

**DIRECTIONS for the question:** The question below consist of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and mark

**Question No. : 182**

There are X litres of pure milk in each of the Jars A and B. What is the value of X?

- I. Ram took out 32 litres of milk from jar A and replaced it with equal quantity of water. He again took out 32 litres of new formed mixture of milk and water from same jar and replaced with equal quantity of water. As a result respective ratio of milk and water in Jar A became 16 :9.  
 II. Ram took out 20% of milk from jar B and added 72 litres of water. As a result percentage of water in the mixture becomes 35%.

- A) if the data in statement (i) alone is sufficient to answer the question;  
 B) if the data in statement (ii) alone is sufficient to answer the question;  
 C) if the data in both the statements together are needed;  
 D) if either statement (i) alone or statement (ii) alone suffices to answer the question;  
 E) if even by combining both the statements the answer can not be found;

**Explanation:-** From I :  $\frac{16}{25} = \left(\frac{1-32/X}{1}\right)^2 \Rightarrow X = 160$  lts  
 From II :  $0.35 (0.8X + 72) = 72 \Rightarrow X = 167$  lts

Therefore the data in either statement (i) alone or statement (ii) alone is sufficient to answer the question.

**DIRECTIONS for the question:** The question below consist of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and mark

**Question No. : 183**

What is the speed of the boat in still water? (in kmph)

- I. The boat takes total time of 4 hours to travel 14 km upstream and 35 km downstream together.  
II. The boat takes total time of 5 hours to travel 29km upstream and 24 km downstream together.

- A) if the data in statement (i) alone is sufficient to answer the question;  
B) if the data in statement (ii) alone is sufficient to answer the question;  
✓C) if the data in both the statements together are needed;  
D) if either statement (i) alone or statement (ii) alone suffices to answer the question;  
E) if even by combining both the statements the answer can not be found;

**Explanation:-** Let the speed of the boat be 'B' and speed the speed of the stream be 'S'

$$\text{From I : } 14/(B-S) + 35/(B+S) = 4$$

$$\text{From II : } 29/(B-S) + 24/(B+S) = 5$$

Using both the statements, we can find the value of speed of the boat in still water.  
Therefore, both the statements are required.

**DIRECTIONS for the question:** The question below consist of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and mark

**Question No. : 184**

An article was sold after giving discount on the marked price. What was the discount percentage given?

- I. The profit earned after giving the discount is 20%. Had the percentage of discount been doubled the seller would have incurred a loss of 4%.  
II. Marked price of the article is 60% above the cost price of the article.

- A) if the data in statement (i) alone is sufficient to answer the question;  
B) if the data in statement (ii) alone is sufficient to answer the question;  
✓C) if the data in both the statements together are needed;  
D) if either statement (i) alone or statement (ii) alone suffices to answer the question;  
E) if even by combining both the statements the answer can not be found;

**Explanation:-** Let CP = 100

$$\Rightarrow MP = 160 \text{ \& } SP = 120$$

$$\Rightarrow \text{Discount} = 40$$

$$D \% = (40/160) \times 100 = 25\%$$

Therefore by combining the data in both the statements, we could find the discount percentage.

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**DIRECTIONS for the question:** The question below consist of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and mark

**Question No. : 185**

In an election only two candidates (A & B) contested. 25% of the registered voters did not cast their votes and 250 votes cast were declared invalid. What is the number of registered voters?

I. Number of votes received by B is 1550.

II. A get 1150 votes more than B. Number of votes received by A is equal to 45% of the number of registered voters.

A) if the data in statement (i) alone is sufficient to answer the question;

B) if the data in statement (ii) alone is sufficient to answer the question;

✓C) if the data in both the statements together are needed;

D) if either statement (i) alone or statement (ii) alone suffices to answer the question;

E) if even by combining both the statements the answer can not be found;

**Explanation:-** From I : Votes received by B = 1550

From II : Votes received by A = 1550 + 1150 = 2700

$2700 = 0.45$  ( Registered votes)  $\Rightarrow$  Registered votes = 6000

Therefore, the data in both the statements together are needed.

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 186**

In river A, the distance travelled by a boat downstream in time T is 50% more than the distance travelled by the same boat upstream in the same time. In river B, the same boat travels a distance of 11km upstream in 30 minutes. If the speed of the river current in river B is 2km/h, what is the speed of the stream in river A? (The speed of the boat in still water is same in both the rivers)

A) 2km/h   B) 4km/h   C) 4.5 km/h   D) 5.2 km/h   ✓E) None of these

**Explanation:-** Let downstream distance =  $D_d$ , Upstream distance =  $D_u$ , Speed of stream =  $S$  & Speed of boat =  $B$

River B :  $11/(B-2) = 30/60 \Rightarrow B = 24\text{k/h}$

River A :  $D_d = 1.5D_u$

$1.5D_u / (24+S) = D_u / (24-S)$

Solving we get  $S = 4.8\text{k/h}$

**DIRECTIONS for the question:** Study the given information carefully to answer the given question.

**Question No. : 187**

$$\left(\frac{x^2}{4}\right) + x + \left(\frac{3}{4}\right) = 0$$

$$y^2 + 6y + 9 = 0$$

Quantity I:  $x$

Quantity II:  $y$

- A) Quantity I = Quantity II   B) Quantity I < Quantity II   C) Quantity I > Quantity II    D) Quantity I  $\geq$  Quantity II  
E) Quantity I  $\leq$  Quantity II

**Explanation:-**  $\left(\frac{x^2}{4}\right) + x + \left(\frac{3}{4}\right) = 0$

$$x^2 + 4x + 3 = 0$$

$$x^2 + 3x + x + 3 = 0$$

$$x(x+3) + 1(x+3) = 0$$

$$(x+1)(x+3) = 0 \Rightarrow x = -1, -3$$

$$y^2 + 6y + 9 = 0$$

$$y^2 + 3y + 3y + 9 = 0$$

$$y(y+3) + 3(y+3) = 0$$

$$(y+3)(y+3) = 0 \Rightarrow y = -3, -3$$

Therefore,  $x \geq y$

**DIRECTIONS for the question:** Study the given information carefully to answer the given question.

**Question No. : 188**

$M$  is an integer selected at random from the set  $\{7, 13, 24, 27, 33, 19 \text{ \& } 21\}$

Quantity I: Probability that the average of 11, 8 and  $M$  is of least 15.

Quantity II:  $\frac{1}{3} M$

- A) Quantity I < Quantity II  
B) Quantity I = Quantity II or the relationship cannot be established from the information that I given  
C) Quantity I  $\leq$  Quantity II    D) Quantity I > Quantity II   E) Quantity  $\geq$  Quantity II

**Explanation:-** Quantity I :  $(11+8+M) / 3 \geq 15$

$$19+M \geq 45 \Rightarrow M \geq 26$$

Therefore,  $M$  can be 27 or 33

Quantity II :  $\frac{1}{3} M \Rightarrow$  As it is  $\frac{1}{3}$ rd of the given values, it will be always less than Quantity I

**DIRECTIONS for the question:** The question consist of two quantities, one in Column A and the other in Column B. Mark answer as

**Question No. : 189**

Sum of first 5 terms of an arithmetic progression (AP) is 65. The respective ratio of the 8<sup>th</sup> and 15<sup>th</sup> term is 4 : 7.

I. 4<sup>th</sup> term of the AP. II.

II. 16

- ✓A) Quantity I < Quantity II  
 B) Quantity I = Quantity II or the relationship cannot be established from the information that I given  
 C) Quantity I < Quantity II D) Quantity I ≤ Quantity II E) Quantity ≥ Quantity II

**Explanation:-** Let AP series is:  $a, a+d, a+2d, a+3d, a+4d$   
 Sum of first 5 terms of an arithmetic progression (AP) is 65.

$$a + a+d+a+2d+a+3d+ a+4d=65$$

$$5a+10d=65$$

$$a+2d=13.....i$$

The respective ratio of the 8<sup>th</sup> and 15<sup>th</sup> term is 4 : 7.

$$8th\ term = a+7d$$

$$15th\ term = a+14d$$

$$(a+7d)/(a+14d)=4/7$$

$$3a=7d$$

$$a=7/3\ d.....ii$$

from i& ii

$$d=3, \text{ and } a= 7$$

therefore, series will be 7, 10, 13, 16,19.

**DIRECTIONS for the question:** Study the given information carefully to answer the given question.

**Question No. : 190**

$$ab < 0$$

Quantity I:  $a - b$

Quantity II:  $a/b$

- A) Quantity I < Quantity II  
 B) Quantity I = Quantity II or the relationship cannot be established from the information that I given  
 C) Quantity I ≤ Quantity II ✓D) Quantity I > Quantity II E) Quantity I ≥ Quantity II

**Explanation:-**  $ab < 0 \Rightarrow$  one value is +ve and other is -ve

$$\text{Let } a = 1 \ \& \ b = -1$$

$$\text{Quantity I : } 1 - (-1) = 2$$

$$\text{Quantity II : } 1 / -1 = -1$$

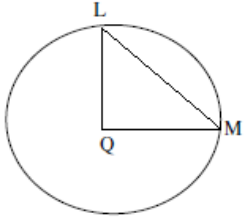
Therefore whatever the values, Quantity I will always be greater than Quantity II.



**DIRECTIONS for the question:** In the following question two equations numbered I and II are given. Solve and mark your answer as

**Question No. : 191**

Q is the centre of the circle and length of LM is 6 cm. (figure into the scale)



Quantity I: The area of the circle

Quantity II:  $36 \pi \text{ cm}^2$

- ✓A) Quantity I < Quantity II  
 B) Quantity I = Quantity II or the relationship cannot be established from the information that I given  
 C) Quantity I  $\leq$  Quantity II    D) Quantity I > Quantity II    E) Quantity  $\geq$  Quantity II

**Explanation:-** Relationship cannot be established from the information that I given as LQ and QM are not given to be perpendicular. so , we can't find the radius.

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 192**

12 men can complete a project in 8 days. For the first two days, all 12 men reported for work but on the third and fourth days 2 men did not report for work. If in the following days, all 10 men reported for work, in total how many days the whole project was completed?

- A)  $8 \frac{1}{2}$     B)  $7 \frac{1}{2}$     ✓C)  $9 \frac{1}{5}$     D)  $8 \frac{1}{2}$     E) 4

**Explanation:-** Total men days =  $9 \text{ men} \times 8 \text{ days} = 96 \text{ men days}$

ATQ,

12 men worked for 2 days = 24 men days

and 10 men worked for 2 days more =  $10 \times 2 = 20 \text{ men days}$ .

Now,  $96 - 24 - 20 = 52 \text{ men days are left to be done by } 10 \text{ remaining men in } 52/10 = 5 \frac{1}{5} \text{ days}$

Hence, total number of days will be =  $5 \frac{1}{5} + 2 + 2 = 9 \frac{1}{5} \text{ days}$

**DIRECTIONS for the question:** In the following series, one of the terms given is **wrong**. Find that term and mark that as your answer.

**Question No. : 193**

13 6 8 13.5 29 75 228

- A) 75    B) 29    C) 13.5    ✓D) 6    E) 8

**Explanation:-** 13 6 8 13.5 29 75 228

$13/2 + .5 = 7$

$7 \times 1 + 1 = 8$

$8 \times 1.5 + 1.5 = 13.5$

$13.5 \times 2 + 2 = 29$

$29 \times 2.5 + 2.5 = 75$

$75 \times 3 + 3 = 228$

therefore, 6 is wrong number in the series.

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**DIRECTIONS for the question:** In the following series, one of the terms given is **wrong**. Find that term and mark that as your answer.

**Question No. : 194**

16.3 14.5 18.2 12.5 20.1 10.6 22

✓A) 10.6 B) 20.1 C) 14.5 D) 12.5 E) 18.2

**Explanation:-** This is the case of dual series. series are given below:

1st series :16.3 18.2 20.1 22

In this , -1.9, -1.9 ... pattern is follows.

&

2nd series: 14.5 12.5 10.6

In this , -2, -2, -2 is follows. therefore  $12.5-2=10.5$ . hence, 10.6 is the wrong number in th series.

**DIRECTIONS for the question:** In the following series, one of the terms given is **wrong**. Find that term and mark that as your answer.

**Question No. : 195**

43 45 55 85 153 290 505

A) 55 B) 45 C) 153 D) 85 ✓E) 290

**Explanation:-**

43	45	55	85	153	290
505					
$45-43=2$	$55-45=10$	$85-55=30$	$153-85=68$	$290-153=137$	$505-290=215$
$2^3+2=8$	$3^3+3=30$	$4^3+4=68$	$5^3+5=130$	$6^3+6=222$	

hence, 6th term(290) is wrong, it should be 283.

**DIRECTIONS for the question:** In the following series, one of the terms given is **wrong**. Find that term and mark that as your answer.

**Question No. : 196**

6 5 8 21 80 415 2364

✓A) 415 B) 8 C) 80 D) 21 E) 5

**Explanation:-** The logic applied here is

\*1 - 1, \*2 - 2, \*3 - 3 and so on. When 80 is multiplied by 5 and then 5 is subtracted, it should be 395, given is 415, which is wrong and hence is the answer.

**DIRECTIONS for the question:** In the following series, one of the terms given is **wrong**. Find that term and mark that as your answer.

**Question No. : 197**

324 164 84 44 46 14 9

✓A) 46 B) 164 C) 84 D) 44 E) 14

**Explanation:-** The logic applied here is

half of the term + 2, gives you the next term.

This follows correctly till 44. Now half of 44 is 22 and adding 2 will give you 24, but the term given there is 46, which is wrong. Thus first option is the answer.

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**DIRECTIONS for the question:** In the following series, one of the terms given is **wrong**. Find that term and mark that as your answer.

**Question No. : 198**

3 5 12 38 154 782 4634

✓A) 782 B) 12 C) 5 D) 154 E) 38

**Explanation:-** The logic applied here is  $*1 + 2$ ,  $*2 + 2$ ,  $*3 + 2$ ,  $*4 + 2$  and so on.

In this case  $154 * 5 = 770 + 2 = 772$ . But given here is 782, which is wrong and hence is the answer.

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 199**

Ten years hence, the respective ratio between Simmi's age and Niti's age will be 7 : 9. Two years ago, the respective ratio between Simmi's age and Niti's age was 1: 3. If Abhay is 4 years older to Simmi, what is Abhay's present age? (in years)

✓A) 8 B) 4 C) 16 D) 20 E) 12

**Explanation:-** Let their ages 10 years hence be  $7x$  and  $9x$ . Now the question states 2 years ago, that means 12 years before the time the first ages are mentioned. Then the equation would be

$(7x - 12)/(9x - 12) = 1/3$ . Solving this you get the value of  $x$  as 2. This means the ages after 10 years are 14 and 18. The present ages are thus 4 and 8 years. Abhey is 4 years older then Simmi, thus Ajay's age would be  $4 + 4 = 8$  years.

**DIRECTIONS for the question:** Solve the following question and mark the best possible option.

**Question No. : 200**

The sum of two numbers is 36. What is their maximum possible product?

✓A) 324 B) 320 C) 240 D) 180 E) 175

**Explanation:-** The product is maximum, when the number is divided into two equal parts. Thus  $18 * 18 = 324$ . First option is the answer.