Directions of Test

Test Name	Actual MAT 05	Total Questions	200	Total Time	150 Mins

Section Name	No. of Questions	Marks per Question	Negative Marking
Quant	43	1	1/4
DI	40	1	1/4
Reasoning	37	1	1/4
Verbal	40	1	1/4
GK	40	1	1/4

Section : Quant

DIRECTIONS for the question: *Answer the following question as per the best of your judgment.*

Question No. : 1

The remainder when x^{1999} is divided by $x^2 - 1$ is

A) 1 B) -1 C) x +1 D) x

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

Question No. : 2

The number of ways in which a committee of 3 ladies and 4 gentlemen can be appointed from a meeting consisting of 8 ladies and 7 gentlemen, if Mrs. X refuses to serve in a committee if Mr. Y is its member, is

A) 1960 B) 3240 C) 1540 D) None of these

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

Question No. : 3

Ramesh takes twice as much time as Mahesh and thrice as much time as Suresh to complete a job. If working together, they can complete the job in 4 days, then the time taken by each of them separately to complete the work is

A) 36, 24 and 16 days B) 20, 16 and 12 days C) 24, 12 and 8 days D) None of these

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

Question No. : 4

Three sides of a triangular field are 20 meters, 21 meters and 29 meters long, respectively. The area of the field is

A) 215 sq m B) 230 sq m C) 210 sq m D) None of these

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

Question No. : 5

Find the greatest number that will divide 964, 1238 and 1400 leaving remainders 41, 31 and 51, respectively.

A) 71 B) 81 C) 61 D) 73

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

Question No. : 6

In a rhombus ABCD the diagonals AC and BD intersect at the point (3, 4). If the point 'A' is (1, 2), the diagonal BD has the equation

A) x – y – l = 0 B) x – y + l = 0 C) x + y – l = 0 D) x + y – 7 = 0

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

Question No. : 7

A circle has two parallel chords of lengths 6 cm and 8 cm. If the chords are 1 cm apart and the centre is on the same side of the chords, then the diameter of the circle is of length:

A) 5 cm B) 6 cm C) 10 cm D) 12 cm

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

Question No. : 8

An express train travelled at an average speed of 100 kmph, stopping for 3 minutes after every 75 km. A local train travelled at a speed of 50 kmph, stopping for 1 minute after every 25 km. If the trains began travelling at the same time, how many kilometres did the local train travel in the time it took the express train to travel 600 km?

A) 900 km B) 307.5 km C) 1200 km D) 1000 km

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

Question No. : 9

Two alloys contain zinc and copper in the ratio of 2 : 1 and 4 : 1. In what ratio the two alloys should be added together to get as new alloy having zinc and copper in the ratio of 3 : 1?

A) 7 : 5 B) 5 : 7 C) 3 : 5 D) None of the above

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

Question No. : 10

Swati and Rajani enter into a partnership with their capitals in the ratio 5 : 6. At the end of 8 months, Swati withdraws her capital. If they receive the profit in the ratio of 5 : 9, find how long Rajani's capital was used?

A) 10 months B) 12 months C) 14 months D) None of these

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

Question No. : 11

The equation $x^2 + 2\sqrt{2}\,xy + 2y^2 + 4x + 4\sqrt{2}\,y + 1 = 0$ represents a pair of lines. The distance between them is:

A) 4 B) $\frac{4}{\sqrt{3}}$ C) 2 D) $2\sqrt{3}$

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

Question No. : 12

The odds against a certain event are 5 : 2 and the odds in favour of another independent event are 6 : 5. The probability that at least one of the events will happen is:

A) $\frac{12}{77}$ B) $\frac{25}{77}$ C) $\frac{52}{77}$ D) $\frac{65}{77}$

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

Question No. : 13

Number of times the hands of a clock are in a straight line every day is

A) 44 B) 24 C) 42 D) 22

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

Question No. : 14

A motor boat can travel at 10 km/h in still water. It traveled 91 km downstream in river and then returned, taking altogether 20 hours. Find the rate of flow of river.

A) 3 km/hour B) 5 km/hour C) 6 km/hour D) 7 km/hour

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

Question No. : 15

Let f be an injective map with domain {x, y, z} and range {1, 2, 3} such that exactly one of the following statements is correct and the remaining are false. $f(x) = 1$, $f(y) \neq 1$, $f(z) \neq 2$. The value of $f^{-1}(1)$ is

A) x B) y C) z D) None of the above

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

Question No. : 16

A person invests Rs. 5508 in '4% stock at 102'. He afterwards sells out at 105 and reinvests in '5% stock at 126'. What is the change in his income?

A) Rs. 20 B) Rs. 7 C) Rs. 10 D) Rs. 9

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

Question No. : 17

The ratio between the number of sides of two regular polygons is 1 : 2 and the ratio between the measure of their interior angles is 2 : 3. The number of sides of these polygons are respectively

A) 4, 8 B) 5, 10 C) 6, 12 D) 8, 16

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

Question No. : 18

How many two-digit odd numbers can be formed from the digits 1, 2, 3, 4, 5, if repetition of digit is allowed?

A) 5 B) 15 C) 35 D) 25

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

Question No. : 19

Three equal glasses are filled with mixtures of sprit and water. The ratio of the sprit to water is as follows: in the first glass as 3 : 4, in the second glass as 4 : 5 and in the third glass as 5 : 6.The contents of the three glasses are emptied into a single vessel. What is the ratio of the sprit to water in the mixture now?

A) 920 : 1159 B) 820 : 1149 C) 1120 : 1134 D) 1010 : 1122

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

Question No. : 20

Two pipes can fill a cistern in 14 and 16 hours respectively. The pipes are opened simultaneously and it is found that due to leakage in the bottom, 32 minutes extra are taken for the cistern to be filled up. If the cistern is full, in what time would the leak empty it?

A) 96 hours B) 102 hours C) 106 hours D) 112 hours

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

Question No. : 21

A toothpaste manufacturer is giving two different offers on its 100 g tube. The first one is giving 30% extra at the same price, and the second one is giving 30% off on the marked price. By what percentage is the first offer costlier than the second one?

A) 4.2% B) 2.4% C) 9.89% D) 0%

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

Question No. : 22

A covered wooden box has the inner measures as 115 cm, 75 cm and 35 cm and the thickness of wood is 2.5 cm. Find the volume of the wood.

A) 82125 cu. cm B) 81775 cu. cm C) 81000 cu. cm D) None of the above

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

Question No. : 23

The mean and standard deviation of the marks of 200 candidates were found to be 40 and 15 respectively. Later, it was discovered that a score 40 was wrongly read as 50. The correct mean and standard deviation are respectively

A) 14.98, 38.95 B) 39.95, 14.98 C) 39.95, 24.5 D) 40.05, 14.98

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

Question No. : 24

Two alloys contain zinc and copper in the ratio of 2 : 1 and 4 : 1. In what ratio the two alloys should be added together to get as new alloy having zinc and copper in the ratio of 3 : 1?

A) 7 : 5 B) 5 : 7 C) 3 : 5 D) None of the above

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

Question No. : 25

From the top of a light house 60 meters high with its base at the sea level, the angle of depression of a boat is 15°. The distance of the boat from the foot of the light house is (in m)

A) $\frac{\sqrt{3}-1}{\sqrt{3}+1}\times 60$ B) $\frac{60\left(\sqrt{3}+1\right)}{\left(\sqrt{3}-1\right)}$ C) $\frac{\sqrt{3}+1}{\sqrt{3}-1}$ D) $\frac{\sqrt{3}-1}{\sqrt{6}-1}$

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

Question No. : 26

The value of $\frac{1.073\times 1.073-0.927\times 0.927}{1.073-0.927}+\frac{(3^4)^4\times 9^6}{(27)^7\times(3)^9}$ is

A) 2 B) $\frac{1}{9}$ C) $2\frac{1}{9}$ D) $3\frac{1}{9}$

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

Question No. : 27

If $x^4+\frac{1}{x^4}=47$, find the value of $x^3+\frac{1}{x^3}$.

A) 18 B) 20 C) 22 D) 24

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

Question No. : 28

The area of the triangle formed by the tangents from the point (4,3) to the circle $x^2 + y^2 = 9$ and the line joining their points of contact is:

A) $\frac{25}{192}$ square units B) $\frac{192}{25}$ square units C) $\frac{385}{25}$ square units D) $\frac{185}{25}$ square units

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

Question No. : 29

The Hussain Sagar Express travels from Mumbai to Hyderabad. Along the way the train stops at 18 different places. So, in total, there are 20 stops including stop at Mumbai and Hyderabad. How many different tickets can be given out by the railways?

A) 190 different tickets B) 380 different tickets C) 145 different tickets D) 120 different tickets

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

Question No. : 30

The argument of $\frac{1-i\sqrt{3}}{1+i\sqrt{3}}$ is

A) $\frac{\pi}{3}$ B) $2\frac{\pi}{3}$ C) $7\frac{\pi}{6}$ D) $4\frac{\pi}{3}$

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

Question No. : 31

What is the value of $\frac{1}{\sqrt{5}+\sqrt{3}}+\frac{2}{3+\sqrt{5}}-\frac{3}{3+\sqrt{3}}$?

A) 0 B) 1/2 C) -1/2 D) 1

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

Question No. : 32

Which of the following cannot be the difference of the numbers formed by the digits 1,2,3,4 and 5 using each digit only once?

A) 41976 B) 32886 C) 47916 D) 30780

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

Question No. : 33

The value of $\frac{1\frac{1}{7}-\frac{2}{3}+\frac{\frac{2}{5}}{1-\frac{1}{25}}}{1-\frac{1}{7}\left[\frac{1}{3}-\frac{\frac{2}{5}}{1-\frac{2}{5}}\right]}$ is

A) 1 B) $\frac{24}{25}$ C) $1\frac{1}{24}$ D) $\frac{75}{88}$

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

Question No. : 34

$(2^{12}- 46)$ is divisible by

A) 3 B) 5 C) 7 D) Both 1 & 2

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

Question No. : 35

If $\log_{12}27 = a$, the $\log_6 16$ is

A) $\frac{(3-a)}{4(3+a)}$ B) $\frac{(3+a)}{4(3-a)}$ C) $\frac{4(3+a)}{(3-a)}$ D) $\frac{4(3-a)}{(3+a)}$

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

Question No. : 36

$\frac{1}{1\times2}+\frac{1}{2\times3}+\frac{1}{3\times4}+\frac{1}{4\times5}+.....+\frac{1}{100\times101}$

A) 100/101 B) 99/101 C) 1/101 D) 1/100

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

Question No. : 37

A librarian had a number of books to place in the shelf. At first he tried to place 4 in each row; then 5; then 6; then 8; then 9; but had always 2 left. On trying 13; he had none left. What is the number of books that he could have?

A) 362 B) 468 C) 1802 D) 2522

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

Question No. : 38

Let 'k' be the positive integer such that (k + 4) is divisible by 7. Let 'n' be the smallest positive integer > 2, and if ($k + n^2$) is divisible by 7, then 'n' equals

A) 3 B) 5 C) 7 D) 9

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

Question No. : 39

Sea water contains 5% salt by weight. How many kilograms of fresh water must be added to 40 kg of sea water so that the salt content of the solution becomes 2% ?

A) 60 Kg B) 50 Kg C) 40 Kg D) 55 Kg

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

Question No. : 40

A farmer has decided to build a wire fence along one straight side of his property. For this, he planned to place several fence-posts at 6 m intervals, with posts fixed at both ends of the side. After he bought the posts and wire, he found that the number of posts he had bought was 5 less than required. However, he discovered that the number of posts he had bought would be just sufficient if he spaced them 8 m apart. What is the length of the side of his property and how many posts did he buy?

A) 100 m, 15 B) 100 m, 16 C) 120 m, 15 D) 120 m, 16

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

Question No. : 41

A spherical ball 6 cm in diameter is melted and recast into 3 smaller spherical balls. The radius of the two of the there are 1.5 cm and 2 cm respectively. The radius of the third is

A) 3.5 cm B) 3.0 cm C) 2.0 cm D) 2.5 cm

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

Question No. : 42

If p, q, r are in G.P; then $\log_p n$, $\log_q n$, $\log_r n$ are in

A) H.P B) G.P C) A.P D) AGP

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

Question No. : 43

In a village, a survey found that 25% of the people were keeping normal health & of the remaining 75% people, 50,000 people were suffering from TB & 40,000 people from hypertension and 15,000 from both TB and hypertension. No other ailments were

present. What is the population of the village (in lakhs)?

A) 0.75 B) 2.0 C) 1.5 D) 1

Section : DI

Question No. : 44

DIRECTIONS *for the question:* Analyse the table/s given below and answer the question that follows.
Answer the question based on the data given in the table which shows the installment amounts for monthly repayments (in Rupees) on housing loans for different periods.

Loan Amount (Rs)	Repayment Period (Years)			
	10	15	20	25
1, 00, 000	1250	1050	900	850
2,00,000	2500	2050	1800	1600
10,00,000	12950	10300	9000	8450
15,00,000	19400	15450	13500	12650
20,00,000	25900	20600	18000	16800

How much more money would be paid on a loan of Rs. 20,00,000 taken out over 20 years compared to the same loan taken over a period of 15 years?

A) Rs. 4,25,000 B) Rs. 3,00,000 C) Rs. 5,50,000 D) Rs. 6,12,000

Question No. : 45

DIRECTIONS *for the question:* Analyse the table/s given below and answer the question that follows.
Answer the question based on the data given in the table which shows the installment amounts for monthly repayments (in Rupees) on housing loans for different periods.

Loan Amount (Rs)	Repayment Period (Years)			
	10	15	20	25
1, 00, 000	1250	1050	900	850
2,00,000	2500	2050	1800	1600
10,00,000	12950	10300	9000	8450
15,00,000	19400	15450	13500	12650
20,00,000	25900	20600	18000	16800

What is the total amount repaid over 25 years on a loan of Rs. 15,00,000?

A) Rs. 37,95,000 B) Rs. 22,50,000 C) Rs. 45,30,000 D) Rs. 55,70,000

Question No. : 46

DIRECTIONS *for the question:* Analyse the table/s given below and answer the question that follows.
Answer the question based on the data given in the table which shows the installment amounts for monthly repayments (in Rupees) on housing loans for different periods.

Loan Amount (Rs)	Repayment Period (Years)			
	10	15	20	25
1, 00, 000	1250	1050	900	850
2,00,000	2500	2050	1800	1600

10,00,000	12950	10300	9000	8450
15,00,000	19400	15450	13500	12650
20,00,000	25900	20600	18000	16800

The monthly repayment on a loan of Rs. 15,00,000 over 20 years is reduced to Rs. 12,500. By how much would this reduce the total amount on the loan over the full period?

A) Rs 2,40, 000 B) Rs. 1,30,000 C) Rs. 2,24,000 D) Rs. 1,26,000

Question No. : 47

DIRECTIONS *for the question:* Analyse the table/s given below and answer the question that follows.
Answer the question based on the data given in the table which shows the installment amounts for monthly repayments (in Rupees) on housing loans for different periods.

Loan Amount (Rs)	Repayment Period (Years)			
	10	**15**	**20**	**25**
1, 00, 000	1250	1050	900	850
2,00,000	2500	2050	1800	1600
10,00,000	12950	10300	9000	8450
15,00,000	19400	15450	13500	12650
20,00,000	25900	20600	18000	16800

Instead of taking a loan of Rs. 10,00,000 with a repayment period of 15 years, the society proposes to take a loan of Rs. 15,00,000 to be paid back in 10 years to provide for a generator set. What is the cumulative financial impact?

A) Rs 4,74, 000 B) Rs. 4,54,000 C) Rs. 5,67,000 D) Cannot be assessed

Question No. : 48

DIRECTIONS *for the question:* *Study the caselet given below and the table following it carefully and answer the question given thereafter.*

In a 5-year Management Course, students studying in 2nd year are asked to select four optional subjects from the given seven optional subjects. There are ten students whose Roll Numbers are from 1 to 10. They have selected four optional subjects each. Their subjects selected are indicated by "Y" mark.

Courses	Roll Numbers									
	1	2	3	4	5	6	7	8	9	10
TA	Y		Y	Y		Y		Y	Y	Y
MBCA		Y	Y		Y	Y		Y		
YCA			Y			Y			Y	Y
DMBC	Y	Y		Y	Y		Y	Y		
XA		Y					Y		Y	Y
PG	Y		Y	Y	Y		Y	Y		
PM	Y	Y		Y	Y	Y	Y		Y	Y

Which of the following triple courses have maximum number of students in common?

A) TA, MBCA, YCA B) DMBC, TA, PG C) YCA, PM, XA D) DMBC, YCA, XA

Question No. : 49

DIRECTIONS *for the question:* *Study the caselet given below and the table following it carefully and answer the question given thereafter.*

In a 5-year Management Course, students studying in 2nd year are asked to select four optional subjects from the given seven optional subjects. There are ten students whose Roll Numbers are from 1 to 10. They have selected four optional subjects each.

Their subjects selected are indicated by "Y" mark.

Courses	Roll Numbers									
	1	2	3	4	5	6	7	8	9	10
TA	Y		Y	Y		Y		Y	Y	Y
MBCA		Y	Y		Y	Y		Y		
YCA			Y			Y			Y	Y
DMBC	Y	Y		Y	Y		Y	Y		
XA		Y					Y		Y	Y
PG	Y		Y	Y	Y		Y	Y		
PM	Y	Y		Y	Y	Y	Y		Y	Y

Which Roll Numbers have the maximum common number of optional subjects?

A) 1 and 8 B) 3 and 6 C) 9 and 10 D) 2 and 5

Question No. : 50

DIRECTIONS *for the question:* *Study the caselet given below and the table following it carefully and answer the question given thereafter.*

In a 5-year Management Course, students studying in 2nd year are asked to select four optional subjects from the given seven optional subjects. There are ten students whose Roll Numbers are from 1 to 10. They have selected four optional subjects each. Their subjects selected are indicated by "Y" mark.

Courses	Roll Numbers									
	1	2	3	4	5	6	7	8	9	10
TA	Y		Y	Y		Y		Y	Y	Y
MBCA		Y	Y		Y	Y		Y		
YCA			Y			Y			Y	Y
DMBC	Y	Y		Y	Y		Y	Y		
XA		Y					Y		Y	Y
PG	Y		Y	Y	Y		Y	Y		
PM	Y	Y		Y	Y	Y	Y		Y	Y

Which optional subject was chosen by maximum number of students?

A) XA B) PM C) MBCA D) DMBC

Question No. : 51

DIRECTIONS *for the question:* *Study the caselet given below and the table following it carefully and answer the question given thereafter.*

In a 5-year Management Course, students studying in 2nd year are asked to select four optional subjects from the given seven optional subjects. There are ten students whose Roll Numbers are from 1 to 10. They have selected four optional subjects each. Their subjects selected are indicated by "Y" mark.

Courses	Roll Numbers									
	1	2	3	4	5	6	7	8	9	10
TA	Y		Y	Y		Y		Y	Y	Y
MBCA		Y	Y		Y	Y		Y		
YCA			Y			Y			Y	Y
DMBC	Y	Y		Y	Y		Y	Y		
XA		Y					Y		Y	Y
PG	Y		Y	Y	Y		Y	Y		
PM	Y	Y		Y	Y	Y	Y		Y	Y

Which Roll Numbers have the same optional subjects?

A) 3 and 6 B) 1 and 3 C) 6 and 8 D) 9 and 10

DIRECTIONS for the question: *The question below consists 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.*

Question No. : 52

K is a positive integer. Is k a prime number?

I. No integer between 2 and $\sqrt{k}$ inclusive divides k evenly.
II. No integer between 2 and k/2 inclusive divides k evenly and k is greater than 5.

Choose the correct option:

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 even in both statements I and II together are not sufficient to answer the question

DIRECTIONS for the question: *The question below consists 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.*

Question No. : 53

Is $x^2 : y^2 < 1$?

I. $(y - x)(x + y) = 40\%$ of $60 - 120\%$ of 20.
II. $x < y$.

Choose the correct option:

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 even in both statements I and II together are not sufficient to answer the question

DIRECTIONS for the question: *The question below consists 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.*

Question No. : 54

By selling a product for Rs. 100, how much profit was earned?

I. 20% profit would have been earned if it had been sold for Rs. 90.
II. The profit was one-third of the purchase price.

Choose the correct option:

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 even in both statements I and II together are not sufficient to answer the question

DIRECTIONS for the question: *The question below consists 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.*

Question No. : 55

What is the rate of CI on a sum of money?

I. The difference between CI and SI at the same rate of interest for two years is Rs. 43.20 and SI at the end of five years is Rs. 3600.
II. The difference between CI and SI at the same rate of interest on Rs. 12,000 for 3 years is Rs. 132.19.

Choose the correct option:

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 even in both statements I and II together are not sufficient to answer the question

DIRECTIONS for the question: *The following question is accompanied by three statements (A), (B), and (C). You have to determine which statement(s) is / are sufficient / necessary to answer the questions.*

Question No. : 56

How many minimum marks are required to pass an examination?

A. Student A secured 38% marks in the examination and failed by 8 marks. Student B secured 42% marks in the same examination and got 12 more than the minimum pass marks.
B. Student A secured 35% of the total marks in the examination and failed by 23 marks. If he had secured 25 more marks his percentage of marks would have been 40%.
C. A student will be declared passed if he secures 39.60% of the total marks.

A) Any two of them B) Only A & B C) C and either A or B D) Either A or B only

DIRECTIONS for the question: *The following question is accompanied by three statements (A), (B), and (C). You have to determine which statement(s) is / are sufficient / necessary to answer the questions.*

Question No. : 57

What will be the share of R in the profit earned by V, R and A together?

A. They together invested an amount of Rs. 54,000 for a period of one year.
B. R's investment was 25% less than V's and 50% more than A's.
C. The profit of V is Rs. 4,000 more than that of A.

A) Only A and B together B) B and either A or C only C) Only B D) Only B and C together

DIRECTIONS for the question: *The following question is accompanied by three statements (A), (B), and (C). You have to determine which statement(s) is / are sufficient / necessary to answer the questions.*

Question No. : 58

What was the profit earned on the cost price by Mahesh by selling an article?

A. He got 15% concession on labelled price in buying that article.
B. He sold it for Rs. 3,060.
C. He earned a profit of 2% on the labeled price.

A) Only A and B together are required B) Only B and C together are required
C) Only either A or C and B together are required D) All A, B, and C together are required

DIRECTIONS for the question: *The following question is accompanied by three statements (A), (B), and (C). You have to determine which statement(s) is / are sufficient / necessary to answer the questions.*

Question No. : 59

15 men and 20 women work together for 5 days and then 5 men and 8 women leave the group. In how many days will the remaining work be finished by the remaining people?

A. 10 men and 15 women together can complete the work in 120/7 days.
B. The work done by 1 man is equal to the work done by 2 women.
C. 20 men alone can do the entire work in 15 days.

A) Any one of them B) Either A or C C) Only B D) Any two of them

DIRECTIONS for the question: *The following question is accompanied by three statements (A), (B), and (C). You have to determine which statement(s) is / are sufficient / necessary to answer the questions.*

Question No. : 60

What is the cost of flooring a rectangular hall?

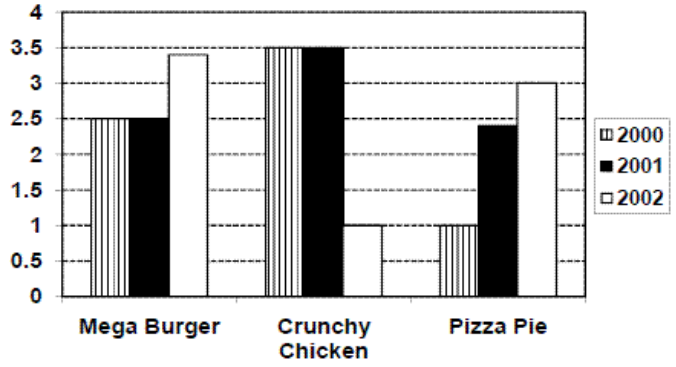
A. The length and the breadth of the hall are in the ratio of 3 : 2.
B. The length of the hall is 48 metres and the cost of flooring is Rs. 850 per square metre.
C. The perimeter of the hall is 160 metres and the cost of flooring is Rs. 850 per square metre.

A) Only A and B B) Only A and C C) Only C D) Any two of the three

Question No. : 61

DIRECTIONS *for the question:* Examine the graph to answer the question.

Gross Receipts (Rs. mn) of Fast Food Restaurants 2000-2002



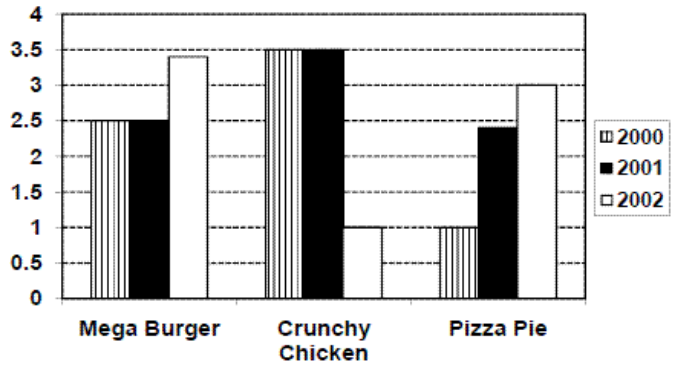
The 2000-2002 gross receipts for Mega Burger exceeded those of Pizza Pie by approximately Rs.

A) 2 million B) 0.2 million C) 8.2 million D) 8.4 million

Question No. : 62

DIRECTIONS ***for the question:*** Examine the graph to answer the question.

Gross Receipts (Rs. mn) of Fast Food Restaurants 2000-2002



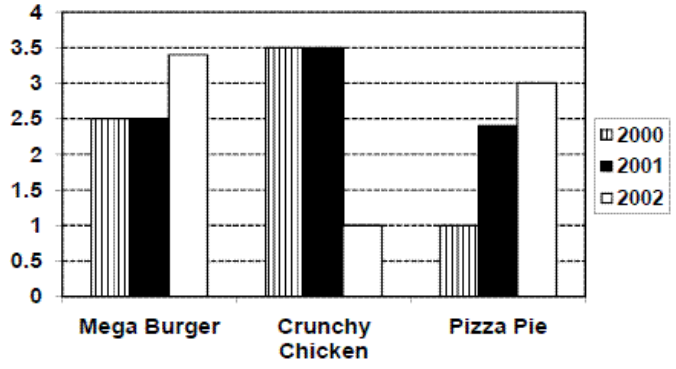
The percent increase in receipts for Pizza Pie is how many times the percent increase of Mega Burger by approximately how much in the given period?

A) 2 B) 5 C) 3 D) 4

Question No. : 63

DIRECTIONS ***for the question:*** Examine the graph to answer the question.

Gross Receipts (Rs. mn) of Fast Food Restaurants 2000-2002



The 2002 decline in Crunchy Chicken receipts may be attributed to

A) increase in popularity of pizzas B) increase in popularity of burgers C) decrease in demand for chicken
D) Cannot be determined

DIRECTIONS for the question: *The question is followed by three statements. You have to study the question and all the three statements given and decide whether any information provided in the statements is redundant and can be dispensed with while answering the questions.*

Question No. : 64

A 25 m long wire is cut into 3 pieces. How long is the longest piece?

A. Two pieces are each 1 m shorter than the longest piece.
B. Two pieces of the wire are of the same length.
C. The longest piece of the wire is 12.5% more than the smallest piece.

A) Only A B) Either A alone or B and C together C) Only B and C together D) B and either A or C

DIRECTIONS for the question: *The question is followed by three statements. You have to study the question and all the three statements given and decide whether any information provided in the statements is redundant and can be dispensed with while*

answering the questions.

Question No. : 65

Is the average of the largest and the smallest of four given numbers greater than the average of the four numbers?

A. The difference between the largest and the second largest number is less than the difference between the second largest and the second smallest number.
B. The difference between the largest and the second largest numbers is greater than the difference between the second smallest and the smallest numbers.
C. The difference between the largest and the second smallest numbers is greater than the difference between the second largest and the smallest number.

A) Only A B) Either B or C C) A and either B or C D) Any two of them

DIRECTIONS for the question: *The question is followed by three statements. You have to study the question and all the three statements given and decide which of the statements are required to answer the question.*

Question No. : 66

Rajdhani Express leaves Delhi at 4 P.M. for Mumbai. At what time will it reach Mumbai?

A. It maintains the average speed of 110 km per hr.
B. It has four stoppages of 10 minutes each between Delhi and Mumbai.
C. It covers 250 km before each stoppage.

A) Only B B) Any two of the three C) Any one of the three D) None of these

DIRECTIONS for the question: *The question is followed by three statements. You have to study the question and all the three statements given and decide which of the given statements are required to answer the question.*

Question No. : 67

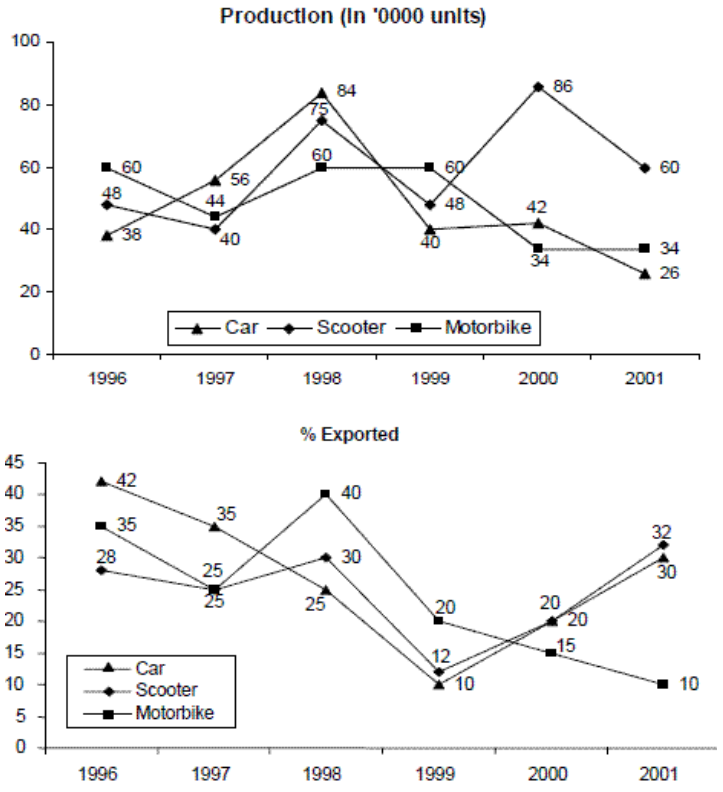
Find the area of an isosceles triangle.

A. Perimeter of the triangle is 64 cm.
B. Base of the triangle is 16 cm.
C. Height of the triangle is $16\sqrt{2}$ cm.

A) Any of them B) Any two of them C) Both B and C D) Only A

Question No. : 68

DIRECTIONS *for the question:* *Study the following line graphs which show the production (in '0000 units) and percentage exported of scooters, motorbikes and cars respectively over the years.*

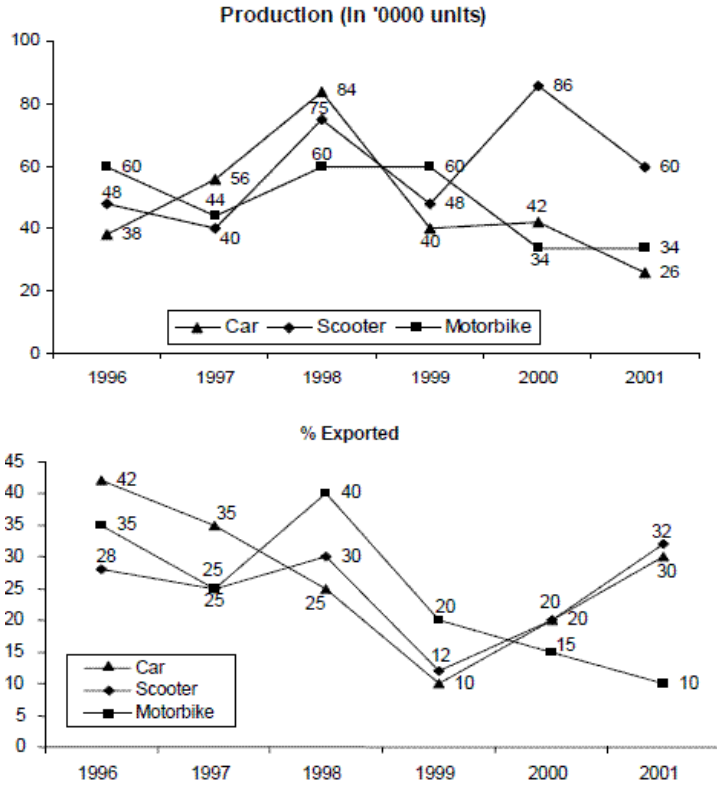


In which of the following years was the production of cars more than 50% of the total production?

A) 2000 B) 2001 C) 1998 D) None of these

Question No. : 69

DIRECTIONS *for the question:* *Study the following line graphs which show the production (in '0000 units) and percentage exported of scooters, motorbikes and cars respectively over the years.*

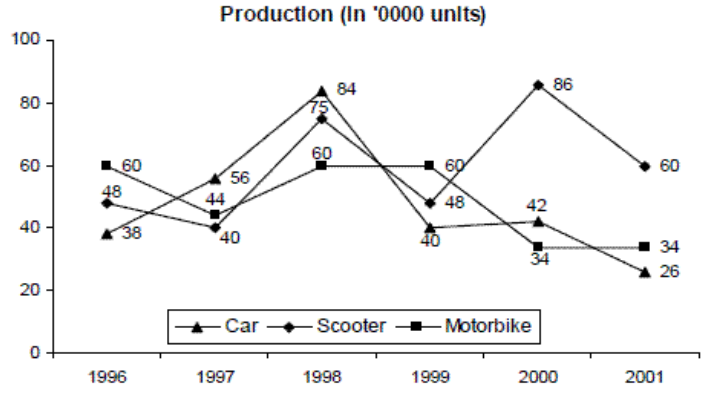


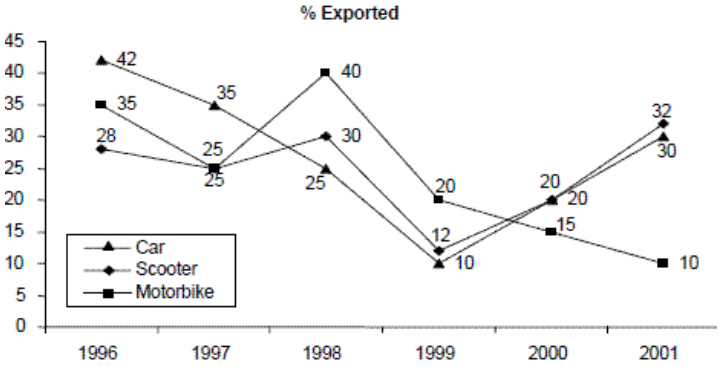
Find the total number of automobiles exported in the year 1999.

A) 227600 B) 207600 C) 217600 D) 220000

Question No. : 70

DIRECTIONS *for the question:* *Study the following line graphs which show the production (in '0000 units) and percentage exported of scooters, motorbikes and cars respectively over the years.*



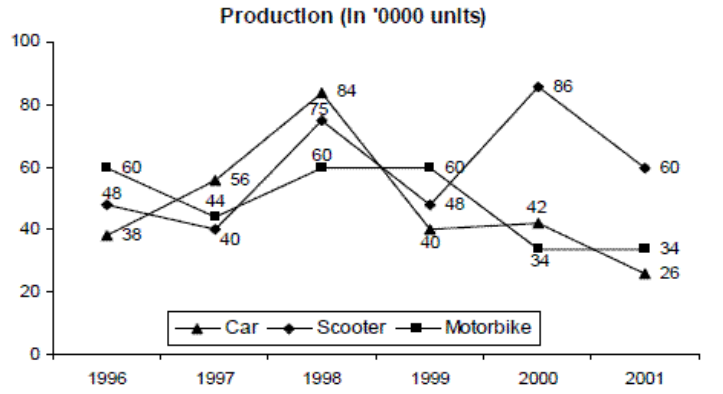


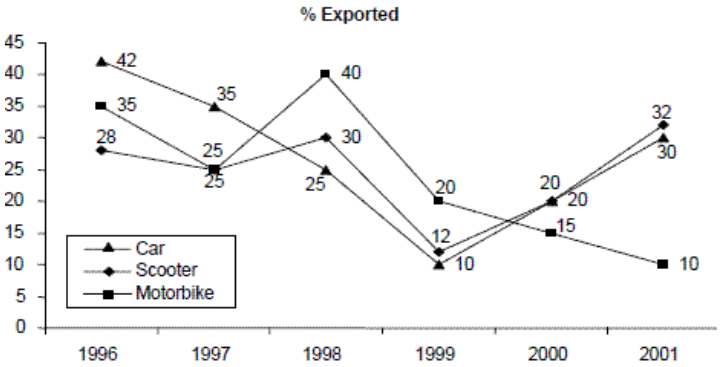
Find the ratio of cars, scooters and motorbikes exported in 1996.

A) 25 : 16 : 19 B) 16 : 25 : 19 C) 19 : 16 : 25 D) 266 : 168 : 63

Question No. : 71

DIRECTIONS *for the question:* *Study the following line graphs which show the production (in '0000 units) and percentage exported of scooters, motorbikes and cars respectively over the years.*



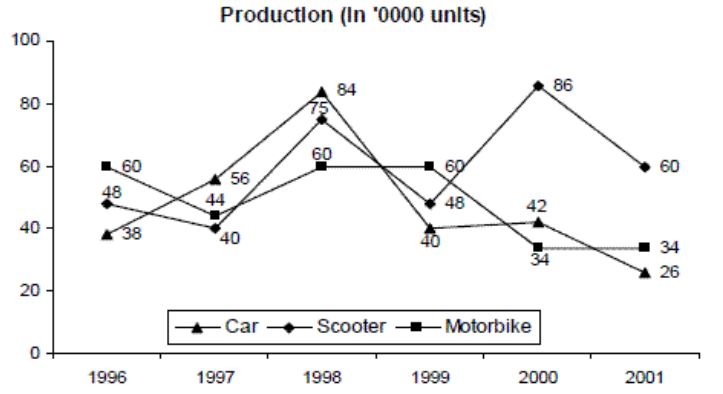


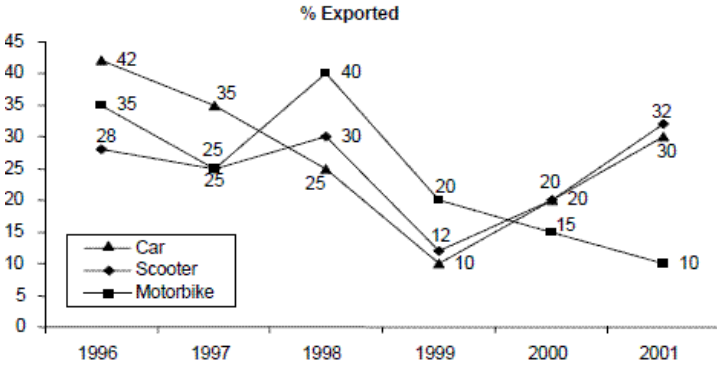
If the ratio of export prices of a car, scooter and motorbike was 2 : 1 : 1.5 in 1998, what was the proportion of their export earnings ?

A) 4 : 2 : 3 B) 6 : 1 : 21 C) 30 : 16 : 21 D) 20 : 12 : 9

Question No. : 72

DIRECTIONS *for the question:* *Study the following line graphs which show the production (in '0000 units) and percentage exported of scooters, motorbikes and cars respectively over the years.*





In which of the following years was the production of motorbikes exactly 40% of the total production of automobiles in that year?

A) 1997 B) 2000 C) 1999 D) 1996

Question No. : 73

DIRECTIONS *for the question:* *Answer the question based on the information given.*

The rate of taxation has the following slabs in India.

Taxable Income (Rs.)	Tax Rate
0-50,000	Exempt
50,000-60,000	10%
60,000-150000	20%
1,50,000+	30%

For salaried employees having salaries equal to or below Rs. 1, 50, 000 p.a., a standard deduction of Rs. 30,000 is available to salaried employees, which is reduced from the total income. Besides, a rebate is available on investments in various saving schemes like Provident Fund, Infrastructure Bonds, Post Office Savings, etc. The rebate is calculated at 20% of the total investment in these savings instruments. Thus, if a person has invested Rs. 10,000 in some saving instruments, he gets Rs. 2,000 rebate on his net tax liability.

However, if the salary increases above Rs. 1, 50, 000 p.a., the standard deduction is reduced to Rs. 25,000 and the rebate on investments is calculated at the rate of 15% of the total investment. Thus, a person saving Rs. 20,000 will get a rebate of Rs. 3,000 on his liability. Besides, a tax surcharge of 10% is added on the total tax liability for all tax payers. Also, working women have a further rebate of Rs. 5,000 available to them on their total tax liability.

What will be the total tax liability of Mr. Rajiv Srivastava, who has a salary of Rs. 1, 50, 000 p.a (Assume he saved Rs. 40,000 in the year)?

A) Rs. 5,000 B) Rs. 5,500 C) Rs. 1,000 D) Data insufficient

Question No. : 74

DIRECTIONS *for the question:* *Answer the question based on the information given.*

The rate of taxation has the following slabs in India.

Taxable Income (Rs.)	Tax Rate
0-50,000	Exempt
50,000-60,000	10%
60,000-150000	20%
1,50,000+	30%

For salaried employees having salaries below Rs. 1, 50, 000 p.a., a standard deduction of Rs. 30,000 is available to salaried employees, which is reduced from the total income. Besides, a rebate is available on investments in various saving schemes like Provident Fund, Infrastructure Bonds, Post Office Savings, etc. The rebate is calculated at 20% of the total investment in these

savings instruments. Thus, if a person has invested Rs. 10,000 in some saving instruments, he gets Rs. 2,000 rebate on his net tax liability.

However, if the salary increases above Rs. 1, 50, 000 p.a., the standard deduction is reduced to Rs. 25,000 and the rebate on investments is calculated at the rate of 15% of the total investment. Thus, a person saving Rs. 20,000 will get a rebate of Rs. 3,000 on his liability. Besides, a tax surcharge of 10% is added on the total tax liability for all tax payers. Also, working women have a further rebate of Rs. 5,000 available to them on their total tax liability.

For the question above, if Mr. Srivastava's salary increases by Rs. 5,000 p.a., what will be the change in his net income after tax (Assuming that he again saves Rs. 40,000 in the year)?

A) Increase of Rs. 1,000 B) Decrease of Rs. 800 C) Increase of Rs. 600 D) Increase of Rs. 5,000

Question No. : 75

DIRECTIONS *for the question:* *Answer the question based on the information given.*

The rate of taxation has the following slabs in India.

Taxable Income (Rs.)	Tax Rate
0-50,000	Exempt
50,000-60,000	10%
60,000-150000	20%
1,50,000+	30%

For salaried employees having salaries equal to or below Rs. 1, 50, 000 p.a., a standard deduction of Rs. 30,000 is available to salaried employees, which is reduced from the total income. Besides, a rebate is available on investments in various saving schemes like Provident Fund, Infrastructure Bonds, Post Office Savings, etc. The rebate is calculated at 20% of the total investment in these savings instruments. Thus, if a person has invested Rs. 10,000 in some saving instruments, he gets Rs. 2,000 rebate on his net tax liability.

However, if the salary increases above Rs. 1, 50, 000 p.a., the standard deduction is reduced to Rs. 25,000 and the rebate on investments is calculated at the rate of 15% of the total investment. Thus, a person saving Rs. 20,000 will get a rebate of Rs. 3,000 on his liability. Besides, a tax surcharge of 10% is added on the total tax liability for all tax payers. Also, working women have a further rebate of Rs. 5,000 available to them on their total tax liability.

Mrs. Shruti Srivastava who works in the same firm, earns a salary of Rs. 1,50,000 p.a. How much must she save to pay no tax for the year?

A) Rs. 41,000 B) Rs. 40,000 C) Rs. 30,000 D) Rs. 60,000

Question No. : 76

DIRECTIONS *for the question:* *Answer the question based on the information given.*

The rate of taxation has the following slabs in India.

Taxable Income (Rs.)	Tax Rate
0-50,000	Exempt
50,000-60,000	10%
60,000-150000	20%
1,50,000+	30%

For salaried employees having salaries equal to or below Rs. 1, 50, 000 p.a., a standard deduction of Rs. 30,000 is available to salaried employees, which is reduced from the total income. Besides, a rebate is available on investments in various saving schemes like Provident Fund, Infrastructure Bonds, Post Office Savings, etc. The rebate is calculated at 20% of the total investment in these savings instruments. Thus, if a person has invested Rs. 10,000 in some saving instruments, he gets Rs. 2,000 rebate on his net tax liability.

However, if the salary increases above Rs. 1, 50, 000 p.a., the standard deduction is reduced to Rs. 25,000 and the rebate on investments is calculated at the rate of 15% of the total investment. Thus, a person saving Rs. 20,000 will get a rebate of Rs. 3,000 on his liability. Besides, a tax surcharge of 10% is added on the total tax liability for all tax payers. Also, working women have a further rebate of Rs. 5,000 available to them on their total tax liability.

Prakash Purti has a salary income of Rs. 1,44,000. Besides he has earned Rs. 35,000 as consultancy income. He has saved Rs.

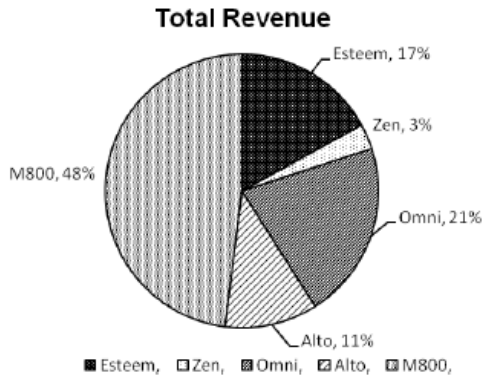
70,000 for the year in tax savings instruments. How much tax will he have to pay?

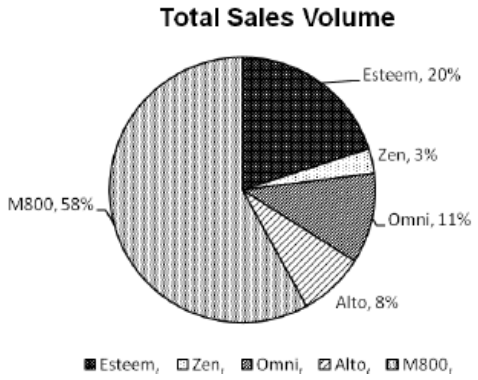
A) Rs. 18,800 B) Rs. 14,800 C) Rs. 4,800 D) None of these

Question No. : 77

DIRECTIONS ***for the question:*** *The pie charts below show us the breakup of the Total Revenue and Total Sales Volume for a company, for the year ended 2003.*

Total Revenue = Rs. 11,39,200 million and Total Sales Volume = 653610 Units. Based on the data provided in both the figures answer the questions that follow.





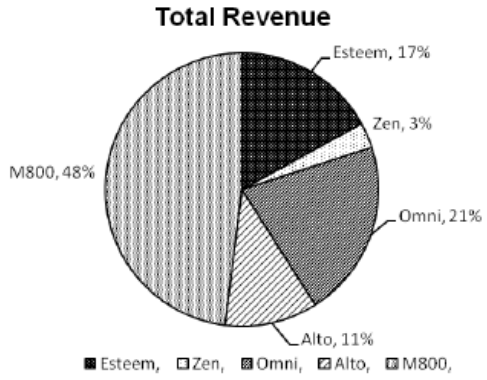
What is the net revenue per Esteem sold, approximately?

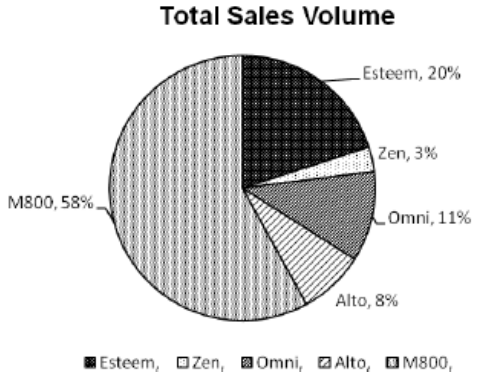
A) Rs. 14,81,000 B) Rs. 13,48,000 C) Rs. 15,32,000 D) Rs. 13,26,000

Question No. : 78

DIRECTIONS ***for the question:*** *The pie charts below show us the breakup of the Total Revenue and Total Sales Volume for a company, for the year ended 2003.*

Total Revenue = Rs. 11,39,200 million and Total Sales Volume = 653610 Units. Based on the data provided in both the figures answer the questions that follow.





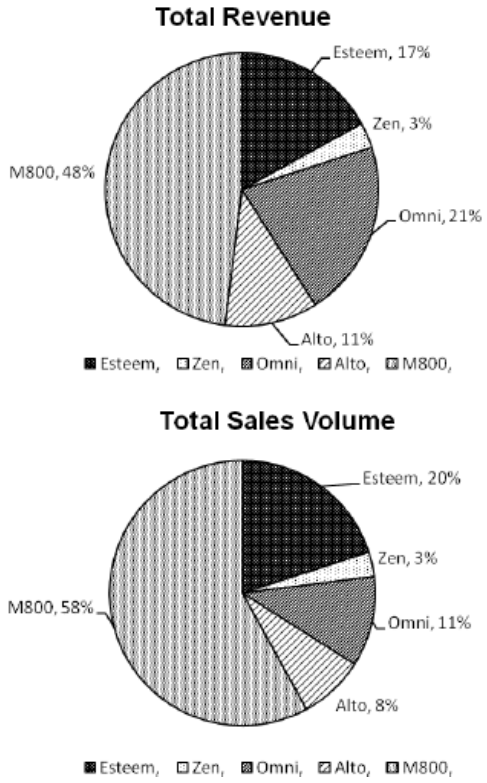
The highest net revenue per vehicle comes from

A) M800 B) Omni C) Esteem D) Zen

Question No. : 79

DIRECTIONS ***for the question:*** *The pie charts below show us the breakup of the Total Revenue and Total Sales Volume for a company, for the year ended 2003.*

Total Revenue = Rs. 11,39,200 million and Total Sales Volume = 653610 Units. Based on the data provided in both the figures answer the questions that follow.



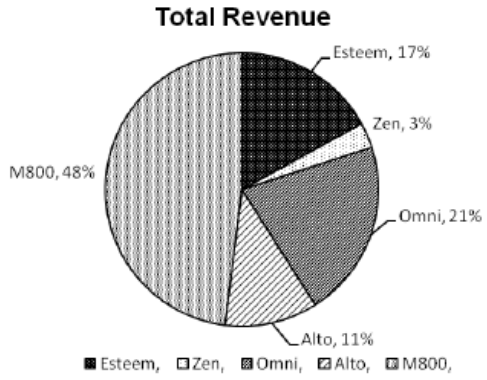
If volume of sales of Omni was increased by 25% and this sales increase was entirely at the cost of M800, then what is the percentage decrease in M800 volume sales?

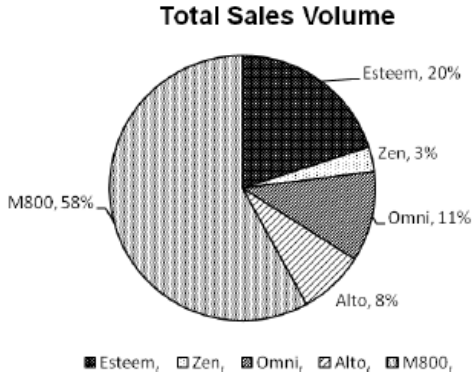
A) 1.3% B) 2.4% C) 4.3% D) 4.75%

Question No. : 80

DIRECTIONS ***for the question:*** *The pie charts below show us the breakup of the Total Revenue and Total Sales Volume for a company, for the year ended 2003.*

Total Revenue = Rs. 11,39,200 million and Total Sales Volume = 653610 Units. Based on the data provided in both the figures answer the questions that follow.





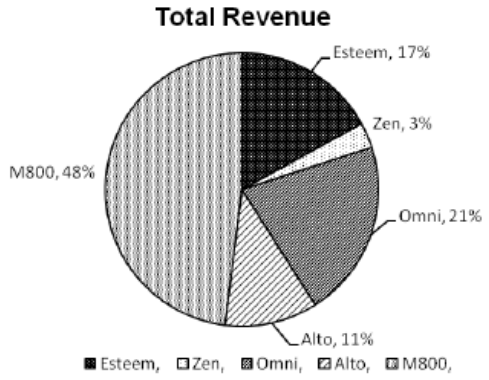
If the net revenue from Alto was to be excluded, what percent of the revenue would Zen form?

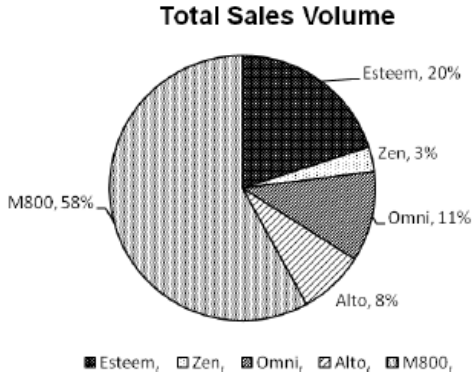
A) 3.27% B) 3.17% C) 3.37% D) 3.47%

Question No. : 81

DIRECTIONS ***for the question:*** *The pie charts below show us the breakup of the Total Revenue and Total Sales Volume for a company, for the year ended 2003.*

Total Revenue = Rs. 11,39,200 million and Total Sales Volume = 653610 Units. Based on the data provided in both the figures answer the questions that follow.





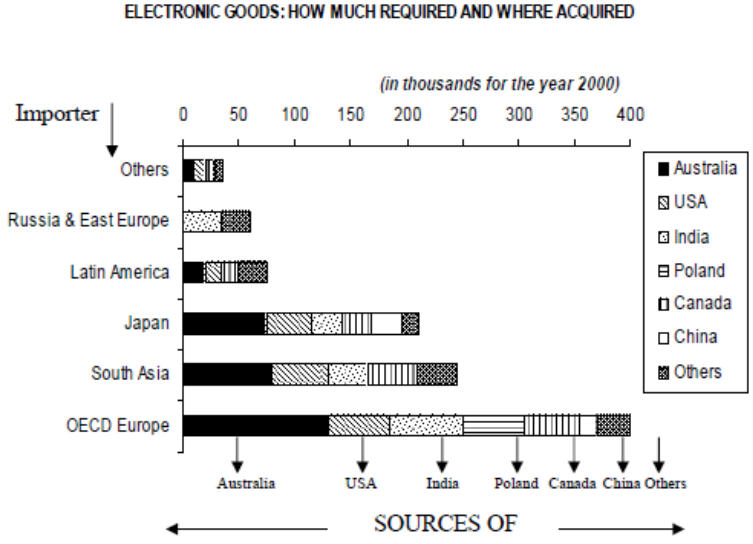
Which of the following is true?

(i) The sum of the revenue generated by Zen and Omni is lesser than twice that of Alto.
(ii) If the revenue of Esteem and Alto be interchanged, Alto's revenue per unit would be more than that for Zen.
(iii) The revenue per unit of Esteem is greater than that for M800.

A) (i) only B) (ii) only C) (iii) only D) Both (ii) and (iii)

Question No. : 82

DIRECTIONS ***for the question:*** Refer to the following bar chart to answer the question.

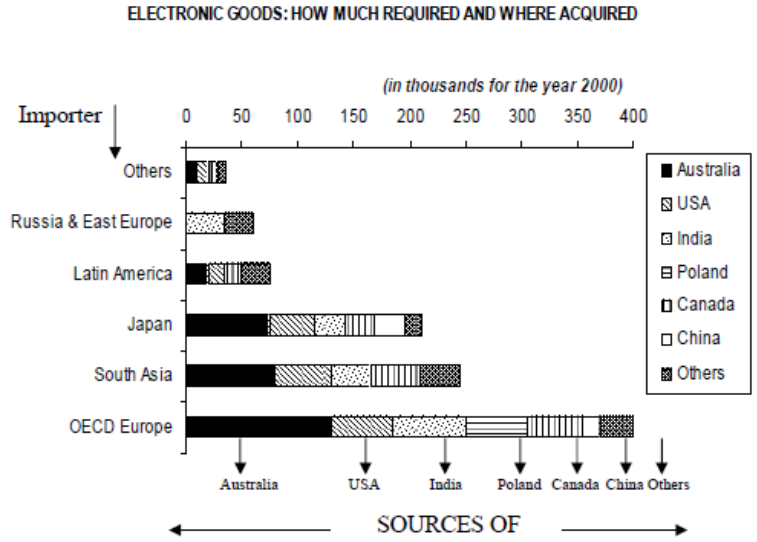


Australia's exports to Japan, South Asia and Russia in 2000 is approximately_____ thousands.

A) 160 B) 185 C) 270 D) Cannot be determined

Question No. : 83

DIRECTIONS *for the question:* Refer to the following bar chart to answer the question.



In the given year, total domestic demand of Russia and East Europe is _____ thousand

A) more than 50 B) 50 C) less than 50 D) Cannot be determined

Section : Reasoning

Question No. : 84

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

(i) There is a group of seven persons A, B, C, D, E, F and G.
(ii) There are four males, three females, two married couples and three unmarried persons in the group.
(iii) The seven persons are seated in a row on the bench.
(iv) Their professions are: engineer, teacher, doctor, psychologist, businessman, architect and student.
(v) B is not married and another person, the psychologist, is the most intelligent.
(vi) The engineer is married to the teacher, who is the least intelligent of the group.
(vii) D is an architect. He is sitting on the leftmost corner.
(viii) The student is sitting on the rightmost corner of the bench.
(ix) The doctor is married to C. C is the second most intelligent of the group followed by her husband.
(x) The least intelligent of the group is sitting on the immediate right of D, followed by the most intelligent.
(xi) There are as many more intelligent persons than the engineer as there are less intelligent.
(xii) On the bench, followed by D there are three females sitting in succession.
(xiii) The psychologist is a female.
(xiv) The student is more intelligent than the architect, who is more intelligent than only one person, F.
(xv) Neither A nor G is a female.

Who is sitting on the immediate right of D?

A) F B) E C) C D) Can't say

Question No. : 85

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

(i) There is a group of seven persons A, B, C, D, E, F and G.
(ii) There are four males, three females, two married couples and three unmarried persons in the group.
(iii) The seven persons are seated in a row on the bench.
(iv) Their professions are: engineer, teacher, doctor, psychologist, businessman, architect and student.
(v) B is not married and another person, the psychologist, is the most intelligent.
(vi) The engineer is married to the teacher, who is the least intelligent of the group.
(vii) D is an architect. He is sitting on the leftmost corner.
(viii) The student is sitting on the rightmost corner of the bench.
(ix) The doctor is married to C. C is the second most intelligent of the group followed by her husband.

(x) The least intelligent of the group is sitting on the immediate right of D, followed by the most intelligent.
(xi) There are as many more intelligent persons than the engineer as there are less intelligent.
(xii) On the bench, followed by D there are three females sitting in succession.
(xiii) The psychologist is a female.
(xiv) The student is more intelligent than the architect, who is more intelligent than only one person, F.
(xv) Neither A nor G is a female.

Who is sitting second from the left?

A) E B) F C) G D) A

Question No. : 86

DIRECTIONS *for the question:* *Read the information given below and answer the question that follows:*
(i) There is a group of seven persons A, B, C, D, E, F and G.
(ii) There are four males, three females, two married couples and three unmarried persons in the group.
(iii) The seven persons are seated in a row on the bench.
(iv) Their professions are: engineer, teacher, doctor, psychologist, businessman, architect and student.
(v) B is not married and another person, the psychologist, is the most intelligent.
(vi) The engineer is married to the teacher, who is the least intelligent of the group.
(vii) D is an architect. He is sitting on the leftmost corner.
(viii) The student is sitting on the rightmost corner of the bench.
(ix) The doctor is married to C. C is the second most intelligent of the group followed by her husband.
(x) The least intelligent of the group is sitting on the immediate right of D, followed by the most intelligent.
(xi) There are as many more intelligent persons than the engineer as there are less intelligent.
(xii) On the bench, followed by D there are three females sitting in succession.
(xiii) The psychologist is a female.
(xiv) The student is more intelligent than the architect, who is more intelligent than only one person, F.
(xv) Neither A nor G is a female.

The Engineer is not more intelligent than

A) Student B) Architect C) Teacher D) Businessman

Question No. : 87

DIRECTIONS *for the question:* *Read the information given below and answer the question that follows:*
(i) There is a group of seven persons A, B, C, D, E, F and G.
(ii) There are four males, three females, two married couples and three unmarried persons in the group.
(iii) The seven persons are seated in a row on the bench.
(iv) Their professions are: engineer, teacher, doctor, psychologist, businessman, architect and student.
(v) B is not married and another person, the psychologist, is the most intelligent.
(vi) The engineer is married to the teacher, who is the least intelligent of the group.
(vii) D is an architect. He is sitting on the leftmost corner.
(viii) The student is sitting on the rightmost corner of the bench.
(ix) The doctor is married to C. C is the second most intelligent of the group followed by her husband.
(x) The least intelligent of the group is sitting on the immediate right of D, followed by the most intelligent.
(xi) There are as many more intelligent persons than the engineer as there are less intelligent.
(xii) On the bench, followed by D there are three females sitting in succession.
(xiii) The psychologist is a female.
(xiv) The student is more intelligent than the architect, who is more intelligent than only one person, F.
(xv) Neither A nor G is a female.

Which of these *cannot* be a married couple?

A) A F B) A C C) G F D) None of these

Question No. : 88

DIRECTIONS *for the question:* *Read the information given below and answer the question that follows:*
(i) There is a group of seven persons A, B, C, D, E, F and G.
(ii) There are four males, three females, two married couples and three unmarried persons in the group.
(iii) The seven persons are seated in a row on the bench.
(iv) Their professions are: engineer, teacher, doctor, psychologist, businessman, architect and student.
(v) B is not married and another person, the psychologist, is the most intelligent.

(vi) The engineer is married to the teacher, who is the least intelligent of the group.
(vii) D is an architect. He is sitting on the leftmost corner.
(viii) The student is sitting on the rightmost corner of the bench.
(ix) The doctor is married to C. C is the second most intelligent of the group followed by her husband.
(x) The least intelligent of the group is sitting on the immediate right of D, followed by the most intelligent.
(xi) There are as many more intelligent persons than the engineer as there are less intelligent.
(xii) On the bench, followed by D there are three females sitting in succession.
(xiii) The psychologist is a female.
(xiv) The student is more intelligent than the architect, who is more intelligent than only one person, F.
(xv) Neither A nor G is a female.

Which of these represents the correct order of intelligence (in the decreasing sequence)?

A) DBF B) CDF C) DCB D) None of these

DIRECTIONS for the question: *Complete the series.*

Question No. : 89

AZ, GT, MN, ?, YB

A) KF B) RX C) SH D) TS

DIRECTIONS for the question: *Complete the series.*

Question No. : 90

J2Z, K4X, I7V, ?, H16R, M22P

A) I11T B) L11S C) L12T D) L11T

DIRECTIONS for the question: *Complete the series.*

Question No. : 91

gfe _____ ig _____ eii _____ fei _____ gf _____ ii

A) e i f g i B) f i g i e C) i f g i e D) i f i g e

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

Question No. : 92

If ACELDNRA stands for CALENDAR, what does LEGIBIEL stand for?

A) LIEGIBLE B) ELIGIBLE C) BIGEELIC D) BIGELLIC E) None of these

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

Question No. : 93

If 18514 stands for AHEAD, what does 31385 stand for?

A) CATCH B) CASSET C) CONQUER D) CACHE E) CATHC

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

Question No. : 94

X told Y, "Though I am the son of your father, you are not my brother". How is X related to Y?

A) Brother B) Son C) Daughter D) Sister

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

Question No. : 95

Standing on a rock, Ravi said that Madurai was more than 3 km but less than 8 km from there. Prabhu said that it was more than 6 but less than 10 km from there. If both of them are correct, how far is Madurai from the rock?

A) 8 km B) 6 km C) 7 km D) Cannot be determined

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

Question No. : 96

Three of the following four are alike in a certain way and so form a group. Which one does ***not*** belong to that group?

A) - B) + C) % D) *

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

Question No. : 97

In a row of children, Bhushan is seventh from the left and Motilal is fourth from the right. When Bhushan and Motilal exchange positions, Bhushan will be fifteenth from the left. Which will be Motilal's position from the right '?

A) Eighth B) Fourth C) Eleventh D) Twelfth

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

Question No. : 98

A clock gaining 2 minutes every hour was synchronised at midnight with a clock losing 1 minute every hour. How many minutes apart will its minute hand be at eleven the following morning?

A) 23 B) 27 C) 22 D) 33

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

Question No. : 99

Keshav knows that Sudha's marks are more than 3 but less than 8 in a unit test. Sonia knows that these are more than 6 but less than 10. If both of them are correct, which of the following statements about Sudha's marks is definitely true?

A) It has only one value B) It has any of three values C) It has either of two values D) It has any of four values

DIRECTIONS for the question: *Read the directions given and answer the question accordingly.*

Question No. : 100

Statement **:** Should non-vegetarian food be totally banned in our country?
Arguments **:** I. Yes. It is expensive and therefore beyond the means of most people in our country.
II. No. Nothing should be banned in a democratic country.

Choose the correct option:

A) if only argument I is strong B) if only argument II is strong C) if either I or II is strong D) if neither I nor II is strong

DIRECTIONS for the question: *Read the directions given and answer the question accordingly.*

Question No. : 101

Statement **:** Should India go in for computerisation in the industry?
Arguments **:** I. No. Computerisation demands a lot of money. We should not waste money on it.
II. Yes. When advanced countries are introducing computers in various areas, how can we afford to lag behind?

Choose the correct option:

A) if only argument I is strong B) if only argument II is strong C) if either I or II is strong D) if neither I nor II is strong

DIRECTIONS for the question: *Read the directions given and answer the question accordingly*
Question No. : 102

Statement **:** Should personal tax be abolished in India?
Arguments **:** I. Yes. It will motivate people to earn more.
II. No. Individuals must learn to share their wealth with other people.

Choose the correct option:

A) if only argument I is strong B) if only argument II is strong C) if either I or II is strong D) if neither I nor II is strong

DIRECTIONS for the question: *Read the directions given and answer the question accordingly.*

Question No. : 103

Statement **:** Should high chimneys be installed in industries?
Arguments **:** I. Yes. It reduces pollution at ground level.
II. No. It increases pollution in upper atmosphere.'

Choose the correct option:

A) if only argument I is strong B) if only argument II is strong C) if either I or II is strong D) if neither I nor II is strong

DIRECTIONS for the question: *Read the directions given and answer the question accordingly..*

Question No. : 104

Statement **:** Should the judiciary be independent of the executive?
Arguments **:** I. Yes. This would help curb the unlawful activities of the executive.
II. No. The executive would not be able to take bold measures.

Choose the correct option:

A) if only argument I is strong B) if only argument II is strong C) if either I or II is strong D) if neither I nor II is strong

DIRECTIONS for the question: *In the question below there is an inference, which is based on the given passage. Examine each inference separately in the context of the passage and decide upon its degree of truth or falsity.*

PASSAGE

The reforms are aimed at having an impact over a wide cross-section of the economy. With improvements and greater efficiency in mobilising and allocating resources, the basis will become stronger for promoting economic growth and development. The reforms aim at increasing efficiency of the financial sector and the range of financial services available within the economy. The introduction of bank capital adequacy and accounting standards, together with improvement in the regulation and supervision of financial institutions and capital market, is aimed at installing greater public confidence, ensuring safety and soundness of the

financial system, bringing about greater transparency and accountability in operations and encouraging overall increased resources mobilisation within the economy.

Question No. : 105

Prior to reforms, the banking sector was running inefficiently although resource allocation was efficient.

A) if you think the inference is 'definitely true'
B) if you think the inference is 'probably true' though not definitely true in the light of the facts given
C) if you think the 'data are inadequate' i.e., from the facts given you cannot say whether the inference is likely to be true or false
D) if you think the inference is 'definitely false'

DIRECTIONS for the question: *In the question below there is an inference, which is based on the given passage. Examine each inference separately in the context of the passage and decide upon its degree of truth or falsity.*

PASSAGE

The reforms are aimed at having an impact over a wide cross-section of the economy. With improvements and greater efficiency in mobilising and allocating resources, the basis will become stronger for promoting economic growth and development. The reforms aim at increasing efficiency of the financial sector and the range of financial services available within the economy. The introduction of bank capital adequacy and accounting standards, together with improvement in the regulation and supervision of financial institutions and capital market, is aimed at installing greater public confidence, ensuring safety and soundness of the financial system, bringing about greater transparency and accountability in operations and encouraging overall increased resources mobilisation within the economy.

Question No. : 106

Bank capital adequacy was not in operation before reforms.

A) if you think the inference is 'definitely true'
B) if you think the inference is 'probably true' though not definitely true in the light of the facts given
C) if you think the 'data are inadequate' i.e., from the facts given you cannot say whether the inference is likely to be true or false
D) if you think the inference is 'definitely false'

DIRECTIONS for the question: *In the question below there is an inference, which is based on the given passage. Examine each inference separately in the context of the passage and decide upon its degree of truth or falsity.*

PASSAGE

The reforms are aimed at having an impact over a wide cross-section of the economy. With improvements and greater efficiency in mobilising and allocating resources, the basis will become stronger for promoting economic growth and development. The reforms aim at increasing efficiency of the financial sector and the range of financial services available within the economy. The introduction of bank capital adequacy and accounting standards, together with improvement in the regulation and supervision of financial institutions and capital market, is aimed at installing greater public confidence, ensuring safety and soundness of the financial system, bringing about greater transparency and accountability in operations and encouraging overall increased resources mobilisation within the economy.

Question No. : 107

Public confidence has some connection with resource mobilisation.

A) if you think the inference is 'definitely true'
B) if you think the inference is 'probably true' though not definitely true in the light of the facts given
C) if you think the 'data are inadequate' i.e., from the facts given you cannot say whether the inference is likely to be true or false
D) if you think the inference is 'definitely false'

DIRECTIONS for the question: *Answer the question based on the information given in the passage.*

PASSAGE

The reforms are aimed at having an impact over a wide cross-section of the economy. With improvements and greater efficiency

in mobilising and allocating resources, the basis will become stronger for promoting economic growth and development. The reforms aim at increasing efficiency of the financial sector and the range of financial services available within the economy. The introduction of bank capital adequacy and accounting standards, together with improvement in the regulation and supervision of financial institutions and capital market, is aimed at installing greater public confidence, ensuring safety and soundness of the financial system, bringing about greater transparency and accountability in operations and encouraging overall increased resources mobilisation within the economy.

Question No. : 108

The economic reforms have aimed only at the financial sector.

A) if you think the inference is 'definitely true'
B) if you think the inference is 'probably true' though not definitely true in the light of the facts given
C) if you think the 'data are inadequate' i.e., from the facts given you cannot say whether the inference is likely to be true or false
D) if you think the inference is 'definitely false'

DIRECTIONS for the question: *Answer the question independent of each other based on the information given.*

Question No. : 109

In order to boost sales of toys at times other than the peak sale time — Christmas — manufacturers use many techniques. Character toys from movies or TV series are promoted, and all sets are 'collectible' by their young purchasers. Collections, however, never appear to be complete, because as soon as all the characters are acquired, the child then requires the 'car', the 'phone', the 'mobile home', and even the 'airplane' to ensure a happy environment for the toys. Ultimately, the elusive final piece of the series is attained just as the manufacturer and promoter release the next series of 'collectibles'.

The prime aim of the manufacturer and promoter is to ensure that

A) all children should be happy and no child can be happy without a complete series of toys
B) as soon as one set is complete or almost complete, then the next one arrives on the scene
C) children should be encouraged to complete their collections of toys D) sales need to be bolstered throughout the year

DIRECTIONS for the question: *Read the directions given and answer the question accordingly*

Question No. : 110

Pioneers of the motor-car industry realised that if they were going to meet the growing demand for their product, they had to adapt the labour force used in the productive process. Instead of many men working to complete all the stages of one car at a time they assigned defined tasks to each man which they would repeat on every car.

Which of the following can be concluded from the passage?

A) Early motor-car manufacturers intended to increase productivity by applying the principle of division of labour
B) The car workers became disgruntled because they were assignee monotonous, repetitive tasks on the assembly line
C) Economies of scale enabled early motor companies to expand
D) A bad worker would perform the same task badly on each car leading to more rejects

DIRECTIONS for the question: *Answer the question independent of each other based on the information given.*

Question No. : 111

There are three main factors that control the risks of becoming dependent on drugs. These factors are the type of drug, the personality of the individual, and the circumstances in which the drug is taken. Indeed, it could be said that the majority of the adult population have taken alcohol, yet few have become dependent on it. Also, many strong drugs that have been used for medical purposes have not caused the patient to become addicted.

However, it can be demonstrated that people who have taken drugs for fun are more likely to become dependent on the drug. The dependence is not always physiological but may remain psychological, although the effects are still essentially the same. Those at greatest risk appear to be personalities that are psychopathic, immature, or otherwise unstable.

Psychological dependence is very strong with heroin, morphine, cocaine, and amphetamines. Physiological dependence is great

with heroin and morphine, but less with amphetamines, barbiturates, and alcohol.

Which of the following conclusions can be drawn from the text?

A) One cannot become addicted to certain drugs if one has a strong personality
B) Taking drugs for "kicks" increases the possibility of becoming dependent on drugs
C) Psychological dependence is the greatest with heroin
D) Alcohol is a safe drug since very few people become dependent on it

DIRECTIONS for the question: *Answer the question based on the information given in the passage.*

Question No. : 112

Every town with a pool hall has its share of unsavoury characters. This is because the pool hall attracts gamblers.

Which of the following, if true, cannot be inferred from the above?

A. All gamblers are unsavoury
B. All pool halls attract gamblers.
C. Every town with a pool hall has unsavoury characters
D. Every town has a pool hall

A) A and C B) B, C and D C) A and D D) D only

DIRECTIONS for the question: *Answer the question independent of each other based on the information given.*

Question No. : 113

The use of petroleum products in the manufacture of plastics should be regulated and limited by law. Our country's need for petroleum for energy production is more vital than our need for plastics, and our growing dependence on foreign sources of petroleum could have serious consequences if, for example, a war cut off our access to those imports. By reducing our use of petroleum products in making plastics, we can take a major step towards national energy independence and so enhance our country's security.

Which of the following, if true, would most greatly weaken the argument above?

A) Only a small fraction of petroleum products consumed in this country is used in making plastics
B) New methods of plastics manufacture can somewhat reduce the amount of petroleum needed
C) The development of atomic energy as an alternative to petroleum based energy has been slowed by legitimate concerns over safety
D) In times of war, combatant nations would be seriously tempted to seize forcibly the territories of petroleum-producing nations

DIRECTIONS for the question: *Answer the question independent of each other based on the information given.*

Question No. : 114

For our nation to compete successfully in the high-technology enterprises of the future, workers with skills in math and science will be needed. But it is doubtful that they will be available, since there is a shortage of high school math and science teachers that shows no signs of improving. Industry can help alleviate this problem by funding scholarship grants and aid to college students who graduate in math and science with the hope of pursuing teaching careers.

Which of the following, if true, would most probably prevent the proposed plan from achieving its intended effect?

A) After graduation from college, most math and science graduates opt for jobs in industry rather than in teaching
B) Many high schools have been forced to lower their standards in hiring math and science teachers
C) More scholarship money is already for students of math and science than is available for those in any other field
D) Population statistics shows that the number of high school students is expected to decline over the next ten

DIRECTIONS for the question: *Answer the question independent of each other based on the information given.*

Question No. : 115

Seen from the perspective of potential, India is truly one of the most exciting places on earth. In the 16 years since Microsoft set up operations in India, I've seen first hand the incredible strides the country has made, building an information technology almost from scratch. This industry is an engine that has driven the creation of new opportunities for hundreds of thousands of people and established India as one of the world's most important centres for innovation. Thanks to the combination of rapid economic growth, an emerging middle class, and an impressive record of technical excellence, India stands as one of the great success stories of our time.

The essence of the above text is

A) India is an exciting place and the excitement has been palpable ever since Microsoft set up shop here
B) Thanks to the prolific growth of the information technology industry, India has of late found its place on the global map
C) It is technology, employment and innovation that have contributed to the emergence of a highly successful India over the past decade and a half
D) India's success lies in its rapid unleashing of potential, whether it be in the economy, technology or the power to innovate

DIRECTIONS for the question: *In the question below, there are two or three statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follow(s) from the given statements.*

Question No. : 116

Statement: Some singers are rockers. All rockers are westerners.

Arguments :
I. Some rockers are singers.
II. Some westerners are rockers.
III. Some singers are westerners.
IV. Some singers are not westerners.

A) I, II and III follow B) I, II and IV follow C) II, III and IV follow D) I, III and IV follow

DIRECTIONS for the question: *In the question below, there are two or three statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follow(s) from the given statements.*

Question No. : 117

Statement : No Indian is an Asian. Some Americans are Indians.

Arguments :
I. Some Indians are not Asians.
II. Some Asians are not Americans.
III. Some Americans are not Asians.
IV. All Americans are Asians.

A) Either III or IV follows B) Either I or II follows C) I and III follow D) Either II or III follows

DIRECTIONS for the question: *In the question below, there are two or three statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follow(s) from the given statements.*

Question No. : 118

Statement : Some charts are darts. All darts are carts. Some carts are smarts.
Arguments :
I. Some charts are carts.
II. Some carts are darts.
III. Some darts are smarts.
IV. Some smarts are charts.

A) Only I and III follow B) Only II and III follow C) I and II follow D) I, III and IV follow

DIRECTIONS for the question: *In the question below, there are two or three statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follow(s) from the given statements.*

Question No. : 119

Statement : Some big are small. No small is large. Some large are tiny.
Arguments :
I. Some large are not big
II. No big is large.
III. Some small are not tiny.
IV. Some big are not tiny.

A) Only I follow B) Only II follow C) Only III follows D) None follows

DIRECTIONS for the question: *In the question below, there are two or three statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follow(s) from the given statements.*

Question No. : 120

Statement : No killer is a sweater.
No jacket is a sweater.
Some jackets are roses.

Arguments :
I. Some roses are sweaters.
II. Some roses are not sweaters.
III. No killer is a jacket.
IV. Some jackets are killers.

A) Either I or II and III follow B) Either III or IV and II follow C) Either II or III follows
D) Either I or II and either III or IV follow

Section : Verbal

Question No. : 121

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

I hope my reader will be convinced, at his very entrance of this work, that he will find in the whole course of it nothing prejudicial to the cause of religion and virtue, nothing inconsistent with the strictest rules of decency, nor which can offend even the chastest eye in the perusal. On the contrary, I declare that to recommend goodness and innocence that been my sincere endeavour in this history. This honest purpose you have been pleased to think I have attained: and to say the truth, it is likeliest to be attained in books of this kind; for an example is a kind of picture, in which virtue becomes, as it were, an object of sight, and strikes us with that loveliness, which Plato assures there is in her naked charms.

Besides displaying that beauty of virtue which may attract the admiration of mankind, I have attempted to engage a stronger motive to human action in her favour, by convincing men, that their true interest directs them to a pursuit of her. For this purpose I have shown that no acquisitions of guilt can compensate the loss of that solid inward comfort of mind, which is the sure companion of innocence and virtue; nor can in the least balance the evil of horror and anxiety, which in their room, guilt introduces in our bosoms. And again, that as these acquisitions are in themselves generally worthless, so are the means to attain them not only base and infamous, but at best uncertain, and always lull of danger. Lastly, I have endeavored strongly to inculcate, that virtue and innocence can scarce ever be injured but by indiscretion; and that it is this alone which often betrays them into the snare that deceit and villainy spread for them. A moral which I have the more industriously laboured, as the teaching it is, of all others, the likeliest to be attended with success; since, I believe, it is much easier to make good men wise, than bad men good.

For these purposes, I have employed all the wit and humour of which I am master in the following history; wherein I have endeavoured to laugh mankind out of its favourite follies and vices. How far I have succeeded in this good attempt, I shall submit to the candid reader, with only two requests: first, that he will not expect to find perfection in this work; and secondly, that he will excuse some parts of it, if they fall short of that little merit which I hope may appear in others.

I will detain you, sir, no longer. Indeed I have run into a preface, while I professed to write a dedication. But how can it be otherwise? I dare not praise you; and the only means I know of to avoid it, when you are in my thoughts, are either to be entirely silent, or to turn my subjects to some other subject.

Pardon, therefore, what I have said in this epistle, not only without your consent, but absolutely against it; and give me leave, in this public manner, to declare that I am, with the highest respect, and gratitude, Sir, Your most obliged, obedient, humble servant...

The tone used by the author in the beginning of the passage can best be described as

A) mellow B) deferential C) polite D) courteous

Question No. : 122

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

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I hope my reader will be convinced, at his very entrance of this work, that he will find in the whole course of it nothing prejudicial to the cause of religion and virtue, nothing inconsistent with the strictest rules of decency, nor which can offend even the chastest eye in the perusal. On the contrary, I declare that to recommend goodness and innocence hath been my sincere endeavour in this history. This honest purpose you have been pleased to think I have attained: and to say the truth, it is likeliest to be attained in books of this kind; for an example is a kind of picture, in which virtue becomes, as it were, an object of sight, and strikes us with that loveliness, which Plato assures there is in her naked charms.

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For these purposes, I have employed all the wit and humour of which I am master in the following history; wherein I have endeavoured to laugh mankind out of its favourite follies and vices. How far I have succeeded in this good attempt, I shall submit to the candid reader, with only two requests: first, that he will not expect to find perfection in this work; and secondly, that he will excuse some parts of it, if they fall short of that little merit which I hope may appear in others.

I will detain you, sir, no longer. Indeed I have run into a preface, while I professed to write a dedication. But how can it be otherwise? I dare not praise you; and the only means I know of to avoid it, when you are in my thoughts, are either to be entirely silent, or to turn my subjects to some other subject.

Pardon, therefore, what I have said in this epistle, not only without your consent, but absolutely against it; and give me leave, in this public manner, to declare that I am, with the highest respect, and gratitude, Sir, Your most obliged, obedient, humble servant...

How has the author tried to elicit a favourable opinion of virtue from the readers?

A) By displaying virtue always wins
B) By showing readers that a thing obtained by a way of virtue gives twice the job compared to a thing obtained by a way of vice
C) By substantiating his claim in proving to the readers that nothing got out of unfair means can compensate for the loss of inward peace
D) All of the above

Question No. : 123

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

I hope my reader will be convinced, at his very entrance of this work, that he will find in the whole course of it nothing prejudicial to the cause of religion and virtue, nothing inconsistent with the strictest rules of decency, nor which can offend even the chastest eye in the perusal. On the contrary, I declare that to recommend goodness and innocence hath been my sincere endeavour in this history. This honest purpose you have been pleased to think I have attained: and to say the truth, it is likeliest to be attained in books of this kind; for an example is a kind of picture, in which virtue becomes, as it were, an object of sight, and strikes us with that loveliness, which Plato assures there is in her naked charms.

Besides displaying that beauty of virtue which may attract the admiration of mankind, I have attempted to engage a stronger motive to human action in her favour, by convincing men, that their true interest directs them to a pursuit of her. For this purpose I have shown that no acquisitions of guilt can compensate the loss of that solid inward comfort of mind, which is the sure companion of innocence and virtue; nor can in the least balance the evil of horror and anxiety, which in their room, guilt introduces in our bosoms. And again, that as these acquisitions are in themselves generally worthless, so are the means to attain them not only base and infamous, but at best uncertain, and always lull of danger. Lastly, I have endeavored strongly to inculcate, that virtue and innocence can scarce ever be injured but by indiscretion; and that it is this alone which often betrays them into the snare that deceit and villainy spread for them. A moral which I have the more industriously laboured, as the teaching it is, of all others, the likeliest to be attended with success; since, I believe, it is much easier to make good men wise, than bad men good.

For these purposes, I have employed all the wit and humour of which I am master in the following history; wherein I have endeavoured to laugh mankind out of its favourite follies and vices. How far I have succeeded in this good attempt, I shall submit to the candid reader, with only two requests: first, that he will not expect to find perfection in this work; and secondly, that he will excuse some parts of it, if they fall short of that little merit which I hope may appear in others.

I will detain you, sir, no longer. Indeed I have run into a preface, while I professed to write a dedication. But how can it be otherwise? I dare not praise you; and the only means I know of to avoid it, when you are in my thoughts, are either to be entirely silent, or to turn my subjects to some other subject.

Pardon, therefore, what I have said in this epistle, not only without your consent, but absolutely against it; and give me leave, in this public manner, to declare that I am, with the highest respect, and gratitude, Sir, Your most obliged, obedient, humble servant...

In the first paragraph, 'Her naked charms' - 'her' here refers to

A) virtue B) picture C) object D) book

Question No. : 124

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

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The author seeks forgiveness because

A) he has detained the reader B) he did not seek his patron's permission C) he went against the wishes of his patron
D) he wrote a preface instead of a dedication

Question No. : 125

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

I hope my reader will be convinced, at his very entrance of this work, that he will find in the whole course of it nothing prejudicial to the cause of religion and virtue, nothing inconsistent with the strictest rules of decency, nor which can offend even the chastest eye in the perusal. On the contrary, I declare that to recommend goodness and innocence hath been my sincere endeavour in this history. This honest purpose you have been pleased to think I have attained: and to say the truth, it is likeliest to be attained in books of this kind; for an example is a kind of picture, in which virtue becomes, as it were, an object of sight, and strikes us with that loveliness, which Plato assures there is in her naked charms.

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The preface written by the author is likely to be followed by

A) an essay on virtue and vice B) a play on virtue and vice C) a comedy that laughs at absurdities
D) a fable that stresses the importance and frailties of virtue

Question No. : 126

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

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An epistle as understood from the passage is likely to be

A) letter B) communiqué C) tribute to a dead person D) closing section of a novel

Question No. : 127

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

Studies of the factors governing reading development in young children have achieved a remarkable degree of consensus over the past two decades. The consensus concerns the casual role of 'phonological skills' in young children's reading progress. Children who have good phonological skills, or good 'phonological awareness' become good readers and good spellers. Children with poor phonological skills progress more poorly. In particular, those who have a specific phonological deficit are likely to be classified as dyslexic by the time that they are 9 or 10 years old.

Phonological skills in young children can be measured at a number of different levels. The term phonological awareness is a global one, and refers to a deficit in recognising smaller units of sound within spoken words. Development work has shown that this deficit can be at the level of syllables, of onsets and rimes, or phonemes. For example, a 4-year old child might have difficulty in recognising that a word like valentine has three syllables, suggesting a lack of syllabic awareness. A five-year-old might have difficulty in recognising that the odd word out in the set of words fan, cat, hat, mat is fan. This task required an awareness of the sub-syllabic units of the onset and the rime. The onset corresponds to any initial consonants in a syllable and the rime corresponds to the vowel and to any following consonants. Rimes correspond to rhyme in single-syllable words, and so the rime in fan differs from the rime in cat, hat and mat. In longer words, rime and rhyme may differ. The onsets in val:en:tine are /v/ and /t/, and the rimes correspond to the spelling patterns 'al', 'en' and 'ine'.

A six-year-old might have difficulty in recognising that plea and pray begin with the same initial sound. This is a phonemic judgment. Although the initial phoneme /p/ is shared between the two words, in plea it is part of the onset 'pi' and in pray it is part of the onset 'pr'. Until children can segment the onset (or the rime), such phonemic judgments are difficult for them to make. In fact, a recent survey of different developmental studies has shown that the different levels of phonological awareness appear to emerge sequentially. The awareness of syllables, onsets, and rimes appears to merge at around the ages of 3 and 4, long before most children go to school. The awareness of phonemes, on the other hand, usually emerges at around the age of 5 or 6, when children have been taught to read for about a year. An awareness of onsets and rimes thus appears to be a precursor of reading, whereas an awareness of phonemes at every serial position in a word only appears to develop as reading is taught. The onset-rime and phonemic levels of phonological structure, however, are not distinct. Many onsets in .English are single phonemes, and so are some rimes (e.g. sea, go, zoo).

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According to the passage which of the following statements is true?

A) A mono-syllabic word can have only one onset B) A mono-syllabic word can have only one rhyme but more than one rime
C) A mono-syllabic word can have only one phoneme D) All of these

Question No. : 128

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

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Which of the following is likely to emerge last in the cognitive development of a child?

A) Rhyme B) Rime C) Onset D) Phoneme

Question No. : 129

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

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A phonological deficit in which of the following is likely to be classified as dyslexia?

A) Onset judgment B) Rime judgment C) Phonemic judgment D) Any one or more of the above

Question No. : 130

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

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The Treiman and Zudowski experiment found evidence to support which of the following conclusions?

A) At age six reading instruction helps children perform both, the same/different judgment task
B) The development of onset – rime awareness precedes the development of an awareness of phonemes
C) At age four to five children find onset- rime version of the same/different task significantly easier
D) The development of onset – rime awareness is a necessary and sufficient condition for the development of awareness of phonemes

Question No. : 131

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

One likes to think that one's attitudes, beliefs, and related behaviour form a consistent pattern. Incongruity that is detected results in a sense of imbalance or dissonance, which the person then seeks to correct. The motivating effects of the need to correct incongruity, imbalance, or dissonance has been the occasion for several theories. We may select for consideration the theory proposed by Festinger which treats cognitive dissonance and its reduction. The kind of disagreement or disharmony with, which Festinger has been chiefly concerned is that which occurs after a decision has been made, after one is committed to a course of action; under such circumstances, there is often some lack of harmony between what one does and what one believes, and there is pressure to change either one's behaviour or one's beliefs. For example, if a regular smoker reads about the relationship between smoking and lung cancer, the habitual action and the new information are dissonant. If the decision is made to continue smoking, the dissonance will be reduced by disbelieving the information about the relationship between smoking and lung cancer; if the decision is made to give up smoking, the information on the linkage between smoking and lung cancer will be accepted. The fact that this information also affected the decision is not important here. As Festinger and others have shown, the weighing of alternatives is more realistic prior to the decision; after the decision, the pressure is great to bring belief and action into balance.

The theory goes on to make some non-obvious predictions; for example, in some cases, failure of expectations instead of destroying belief may strengthen it. This was illustrated by the study of a group of people who expected to be saved from a prophesied disastrous flood by the intervention of a heavenly being. The theory predicted that when the long-awaited day arrived and the prophecy failed (no flood), those who had the social support of the other believers would indeed proselyte for their beliefs with new enthusiasm; while those who had to face the crisis alone would have their faith weakened. These predicted results did indeed occur, the rationalization for the group of disappointed believers who faced failure together being that God had postponed his vengeance because of their faith.

The tendency to be consistent is but one aspect of how self-perception influences motivation. Earlier illustrations of human motivation might also be reinterpreted in these terms. For example, the success motivation and the avoidance of failure are also concerned with how a person sees himself. R.W. White, for example, reinterprets many motives concerned with curiosity, and desire for knowledge and for achievement as though they are all concerned with one's sense of competence as a person who is effective in relation to the environment. In another sense, the person likes to develop his potentials to the full, to be as complete a person as he can. For such a pervasive type of motive, the expression self-actualization was coined, originally by Carl Jung, one of Freud's followers who later developed a system of his own. By self-actualization, he meant the development of full individuality, with all parts somehow in harmony. The term and closely related ones (productive orientation, creative becoming, etc.) have been used by man) psychologists who criticize contemporary motivational theory as being too narrow concerned with short episodes of choice and behaviour rather than with the more profound and pervasive aspects of individual hopes and aspirations.

Which of the following situations is most likely to give rise to cognitive dissonance?

A) Cricket fans watching their team lose
B) An antique collector being told by an expert that the vase he has paid Rs. 3,000 for is worth Rs.100
C) Student failing an exam D) Man cutting himself shaving

Question No. : 132

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motivation might also be reinterpreted in these terms. For example, the success motivation and the avoidance of failure are also concerned with how a person sees himself. R.W. White, for example, reinterprets many motives concerned with curiosity, and desire for knowledge and for achievement as though they are all concerned with one's sense of competence as a person who is effective in relation to the environment. In another sense, the person likes to develop his potentials to the full, to be as complete a person as he can. For such a pervasive type of motive, the expression self-actualization was coined, originally by Carl Jung, one of Freud's followers who later developed a system of his own. By self-actualization, he meant the development of full individuality, with all parts somehow in harmony. The term and closely related ones (productive orientation, creative becoming, etc.) have been used by man) psychologists who criticize contemporary motivational theory as being too narrow concerned with short episodes of choice and behaviour rather than with the more profound and pervasive aspects of individual hopes and aspirations.

In the case that one's expectations fail, belief

A) will be destroyed B) will be shaken but not destroyed C) will be strengthened D) may be destroyed or strengthened

Question No. : 133

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

One likes to think that one's attitudes, beliefs, and related behaviour form a consistent pattern. Incongruity that is detected results in a sense of imbalance or dissonance, which the person then seeks to correct. The motivating effects of the need to correct incongruity, imbalance, or dissonance has been the occasion for several theories. We may select for consideration the theory proposed by Festinger which treats cognitive dissonance and its reduction. The kind of disagreement or disharmony with, which Festinger has been chiefly concerned is that which occurs after a decision has been made, after one is committed to a course of action; under such circumstances, there is often some lack of harmony between what one does and what one believes, and there is pressure to change either one's behaviour or one's beliefs. For example, if a regular smoker reads about the relationship between smoking and lung cancer, the habitual action and the new information are dissonant. If the decision is made to continue smoking, the dissonance will be reduced by disbelieving the information about the relationship between smoking and lung cancer; if the decision is made to give up smoking, the information on the linkage between smoking and lung cancer will be accepted. The fact that this information also affected the decision is not important here. As Festinger and others have shown, the weighing of alternatives is more realistic prior to the decision; after the decision, the pressure is great to bring belief and action into balance.

The theory goes on to make some non-obvious predictions; for example, in some cases, failure of expectations instead of destroying belief may strengthen it. This was illustrated by the study of a group of people who expected to be saved from a prophesied disastrous flood by the intervention of a heavenly being. The theory predicted that when the long-awaited day arrived and the prophecy failed (no flood), those who had the social support of the other believers would indeed proselyte for their beliefs with new enthusiasm; while those who had to face the crisis alone would have their faith weakened. These predicted results did indeed occur, the rationalization for the group of disappointed believers who faced failure together being that God had postponed his vengeance because of their faith.

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With which of the following statements would Jung be most likely to agree?

A) Parents should not allow their children to smoke B) Parents should force their children to learn music
C) Parents should give their children complete freedom
D) Parents should encourage their children to pursue any interests the children might have

Question No. : 134

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

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The passage probably comes from

A) the introduction to a book B) the first chapter of a book C) the middle of a text book D) an article in a news weekly

Question No. : 135

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

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The best title for this passage would be

A) 'Self-actualization' B) 'Self-reference in Human Motivation' C) The Reduction of Cognitive Dissonance'
D) 'Cognitive Dissonance and the Self

Question No. : 136

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

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Which of the following statements would the author disagree with?

A) The tendency to be consistent is the only aspect of how self-perception influences motivation
B) The motivating effects of the need to correct incongruity have been the occasion for several theories
C) By self-actualization, Carl Jung meant the development of full individuality, with all parts somehow in harmony
D) None of the above

DIRECTIONS for the question: *The sentence has two blanks, indicating that something has been omitted. Choose the set of words that best fits the meaning of the sentence as a whole.*

Question No. : 137

I am not attracted by the _____ life of the _____, always wandering through countryside, begging for charity.

A) proud, almsgiver B) affluent, mendicant C) peripatetic, vagabond D) natural, philanthropist

DIRECTIONS for the question: *The sentence has two blanks, indicating that something has been omitted. Choose the set of words that best fits the meaning of the sentence as a whole.*

Question No. : 138

Though the country has _____ free medical service for the poor, it is _____.

A) stopped, unaffordable B) maintained, admirable C) favoured, appreciable D) instituted, inadequate

DIRECTIONS for the question: *The sentence has two blanks, indicating that something has been omitted. Choose the set of words that best fits the meaning of the sentence as a whole.*

Question No. : 139

If criminals are _____ to join electoral fray, _____ is likely to increase.

A) allowed, extortion B) encouraged, harmony C) invited, voting D) compelled, brotherhood

DIRECTIONS for the question: *The sentence has two blanks, indicating that something has been omitted. Choose the set of words that best fits the meaning of the sentence as a whole.*

Question No. : 140

They fought most _____ yet success _____ them.

A) courageously, dishonoured B) valiantly, eluded C) sincerely, failed D) bravely, favoured

DIRECTIONS for the question: *Select the word that is opposite in meaning to the word in capital letters.*

Question No. : 141

SUBSERVIENT

A) Dignified B) disobediant C) Humble D) Honest

DIRECTIONS for the question: *Select the word that is opposite in meaning to the word in capital letters.*

Question No. : 142

DISTRAUGHT

A) Haughty B) Proud C) Stable D) Low

DIRECTIONS for the question: *Select the word that is opposite in meaning to the word in capital letters.*

Question No. : 143

MYOPIC

A) Black B) Gloomy C) Farsighted D) Perfumed

DIRECTIONS for the question: *Select the word that is opposite in meaning to the word in capital letters.*

Question No. : 144

TENACIOUS

A) faint-hearted B) yielding C) erroneous D) praiseworthy

DIRECTIONS for the question: *Choose the word that is similar in meaning to the word given in capital letters.*

Question No. : 145

SERENDIPITY

A) peace B) luck C) joy D) mis-fortune

DIRECTIONS for the question: *Choose the word that is similar in meaning to the word given in capital letters.*

Question No. : 146

VITRIOLIC

A) malicious B) likely C) alcoholic D) fragile

DIRECTIONS for the question: *Choose the word that is similar in meaning to the word given in capital letters.*

Question No. : 147

SPRIGHTLY

A) cheerful B) disc-like C) gullible D) mischievous

DIRECTIONS for the question: *Choose the word that is similar in meaning to the word given in capital letters.*

Question No. : 148

DAPPER

A) unworn B) chaste C) innocent D) neat

DIRECTIONS for the question: *The sentence is divided into four parts a, b, c and d. Choose the part that has an error.*
Question No. : 149

A) During the last centuries B) whaling voyages departed regularly from the New England States
C) and because each voyage normally extends for years D) the hold was packed with supplies before a whaling ship set sail

DIRECTIONS for the question: *The sentence is divided into four parts a, b, c and d. Choose the part that has an error.*
Question No. : 150

A) The Rotary Club applauded B) Hari and I C) for our work in D) helping the handicapped find secure jobs

DIRECTIONS for the question: *The sentence is divided into four parts a, b, c and d. Choose the part that has an error.*
Question No. : 151

A) Because they refuse to follow the conventional dress code B) neither Shivani C) nor her friends
D) is invited to the local society function

DIRECTIONS for the question: *The sentence is divided into four parts a, b, c and d. Choose the part that has an error.*
Question No. : 152

A) The reason why B) he was rejected C) was D) because he was too young

DIRECTIONS for the question: *The sentence is divided into four parts a, b, c and d. Choose the part that has an error.*
Question No. : 153

A) The moment they came to know B) that their leader C) was charge sheeted D) they had gone on a strike

DIRECTIONS for the question: *The question consists of a group of sentences followed by a sequential arrangement. Select the best sequence.*

Question No. : 154

A. An empiricist is one who observes how things work and is prepared to try things out.
B. As a scientist he would prefer to work from observation than from preconceived theory.
C. The empiricist looks first and thinks later.
D. An empiricist is normally contrasted with a rationalist who believes that the mind can work out.
E. The rationalist thinks first and looks later.

A) ABDCE B) ABCDE C) DCABE D) ABEDC

DIRECTIONS for the question: *The question consists of a group of sentences followed by a sequential arrangement. Select the best sequence.*

Question No. : 155

A. Such a national policy will surely divide and never unite people.
B. In fact, it suits the purpose of the politicians, they can drag the people into submission by appealing to them in the name of religion.
C. In order to inculcate unquestioning belief, they condemn other states which do not follow their religion.
D. The emergence of theocratic states, where all types of crimes are committed in the name of religion, has revived the religion of the Middle Ages.

A) ABCD B) DBCA C) DBAC D) CDAB

DIRECTIONS for the question: *The question consists of a group of sentences followed by a sequential arrangement. Select the best sequence.*

Question No. : 156

A. The remnants of such a supernova remain discernable for thousands of years after explosion.
B. Only such supernova can make the heaviest elements like gold and uranium.
C. For a few weeks, an exploding star glows more brightly than a million suns and its interior collapses to make another star.
D. Massive stars not only burn up extremely fast but perish more spectacularly in supernova explosions.

A) ABCD B) ADCB C) DCBA D) BDCA

DIRECTIONS for the question: *The question consists of a group of sentences followed by a sequential arrangement. Select the best sequence.*

Question No. : 157

A. There are also two scorers.
B. After each over they swap positions.
C. In the early 1990s, a third umpire was introduced for test matches.
D. The essential officials in the field are two umpires who control the field.
E. One stands at the bowler's end, the other is square on to the batting wickets so that the batsman has his back to him.
F. The umpire's main duties are to: judge whether a batsman is out in answer to an appeal of "how's that?" from the fielding side; to ensure that the batting, bowling and fielding are within the laws; to signal boundaries, leg-byes, byes, wides, no balls and short runs to the scorers; to decide if conditions are fit or unfit for play.

A) DCBFAE B) FDCBAE C) DEBFAC D) FEBACD

DIRECTIONS for the question: *A part of a sentence is followed by four choices. Select the choice which most logically complements the given part.*

Question No. : 158

War is delightful to those who

A) have a chance of winning it B) are zealous and full of ambition C) love nation glory D) have had no experiences of it

DIRECTIONS for the question: *A part of a sentence is followed by four choices. Select the choice which most logically complements the given part.*

Question No. : 159

The power of thinking atrophies unless

A) it is constantly upgraded B) it is continually updated C) it finds a constant productive outlet D) it is used

DIRECTIONS for the question: *A part of a sentence is followed by four choices. Select the choice which most logically complements the given part.*

Question No. : 160

It seems to me that our, ideals, loves and customs should be based on the proposition that each generation, in turn, becomes the custodian rather than the absolute owner of our resources and each generation his the obligation to

A) enjoy their live to the full B) pass this inheritance on to the future C) enhance them and to save than
D) use them at their will to enhance the glory of mankind

Section : GK

DIRECTIONS for the question: *Mark the best option:*

Question No. : 161

Indian government released set of _____ Commemorative Postage Stamps on Swachh Bharat Mission (Clean India Mission).

A) Four B) Three C) Two D) None of these

DIRECTIONS for the question: *Mark the best option:*

Question No. : 162

Which is the highest mountain in Europe after Elbrus' peak?

A) Mount Vinson B) Alps C) Mount Blanc D) Andes

DIRECTIONS for the question: *Mark the best option:*

Question No. : 163

Which is the most abundant mineral in human body?

A) Iron B) Calcium C) Magnesium D) Sodium

DIRECTIONS for the question: *Mark the best option:*

Question No. : 164

Name the city where the first phase of SAUNI (Saurastra Narmada Avataran Irrigation yojana) was launched by Prime Minister Narendra Modi in August 2016?

A) Jamnagar B) Gandhinagar C) Varanasi D) Lucknow

DIRECTIONS for the question: *Mark the best option:*

Question No. : 165

Union Minister Maneka Gandhi launched Protection of Children from Sexual Offenses (POCSO) e-Box. Up to which age is an individual recognised as a child under POSCO Act 2012?

A) 18 years B) 16 years C) 14 years D) 12 years

DIRECTIONS for the question: *Mark the best option:*

Question No. : 166

The 2016 World Travel Market (WTM) has started in which city?

A) London B) New Delhi C) Geneva D) Berlin

DIRECTIONS for the question: *Mark the best option:*

Question No. : 167

Which state has become the first Indian state to adopt resolution on demonetisation?

A) Madhya Pradesh B) Chhattisgarh C) Assam D) Haryana

DIRECTIONS for the question: *Mark the best option:*

Question No. : 168

"Himansh" India's remote and high altitude research station has opened in which state of India?

A) Sikkim B) Jammu & Kashmir C) Uttarakhand D) Himachal Pradesh

DIRECTIONS for the question: *Mark the best option:*

Question No. : 169

For which purpose "Hind-Iran portal" has been launched between India and Iran?

A) Social cause B) Trade C) Education D) Entrepreneurship

DIRECTIONS for the question: *Mark the best option:*

Question No. : 170

Who among the following topped the Forbes list of world's highest paid actors

A) Tom Cruise B) Matt Damon C) Dwayne Johnson D) Jackie Chan

DIRECTIONS for the question: *Mark the best option:*

Question No. : 171

Who among the following was, named chairman of a five-member review committee to probe the shooters' Rio Games debacle?

A) Abhinav Bindra B) Rajyavardhan Singh Rathore C) Gagan Narang D) Vijay Kumar

DIRECTIONS for the question: *Mark the best option:*

Question No. : 172

Which state has become the first Indian state to adopt the Fly Ash Utilization Policy?

A) Andhra Pradesh B) Maharashtra C) Assam D) Uttar Pradesh

DIRECTIONS for the question: *Mark the best option:*

Question No. : 173

"Shenzhou-11" a manned spacecraft has been successfully launched by which country?

A) North Korea B) Japan C) Russia D) China

DIRECTIONS for the question: *Mark the best option:*

Question No. : 174

In August 2016 the Airport Authority of India signed a MoU with ..... for successful launch of the Regional Connectivity Scheme (RCS) of the Union Government.

A) Maharashtra B) Kerala C) Gujarat D) Rajasthan

DIRECTIONS for the question: *Mark the best option:*

Question No. : 175

As per recent newspaper reports hailed as the world's first 'self-driving' taxi service has been launched in which of the following countries?

A) China B) Singapore C) Japan D) USA

DIRECTIONS for the question: *Mark the best option:*

Question No. : 176

Union Health and Family Welfare Minister JP Nadda has been launched which mobile app to manage the stress level on November 9, 2016 in New Delhi?

A) No More Tension B) Avoid Frustration C) Avoid Tension D) Go Hygiene

DIRECTIONS for the question: *Mark the best option:*

Question No. : 177

The Sarabandi (No Tax) Campaign of 1922 was led by

A) Mahatma Gandhi B) Vallabhbhai Patel C) Bhagat Singh D) Rajguru

DIRECTIONS for the question: *Mark the best option:*

Question No. : 178

When was the rule of 'British East India Company' transferred to 'British Crown' ?

A) 1858 B) 1758 C) 1850 D) 1750

Question No. : 179

'Wings of Fire' is an autobiography of which of the following?

A) Mahatma Gandhi B) Dr. B.R. Ambedkar C) Yuvraj Singh D) Dr. A.P.J. Abdul Kalam

DIRECTIONS for the question: *Mark the best option:*

Question No. : 180

Reserve Bank of India has (August 2016) launched a portal to curb illegal and unauthorised pooling of funds by unscrupulous firms. What is it called?

A) Savdhaan B) Sanchetna C) Sachetna D) Sanchet

DIRECTIONS for the question: *Mark the best option:*

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Question No. : 181

Devendra Jhajharia, who has won gold at the 2016 Rio Paralympics, is associated with which sports?

A) Shot Put B) Javelin throw C) Archery D) Sprint

DIRECTIONS for the question: *Mark the best option:*

Question No. : 182

"Pratham" microsatellite has developed by which IIT institute, which will be launched by Indian Space Research Organization (ISRO)?

A) IIT Indore B) IIT Madras C) IIT Roorkee D) IIT Bombay

DIRECTIONS for the question: *Mark the best option:*

Question No. : 183

S R Nathan, who passed away in August 2016 was the former President of which country?

A) Thailand B) Singapore C) Malaysia D) Maldivies

DIRECTIONS for the question: *Mark the best option:*

Question No. : 184

Which neighbouring country of India passed a resolution (March 2016) to convert its Parliament into Constitutional Assembly?

A) Myanmar B) Nepal C) Bhutan D) Bangladesh

DIRECTIONS for the question: *Mark the best option:*

Question No. : 185

Which of the following ancient site of India has been declared as the UNESCO World Heritage Site in July 2016 ?

A) Mountain Railways of India B) Nalanda Mahavihara C) Churches and Convents of Goa D) Churches of Shimla

DIRECTIONS for the question: *Mark the best option:*

Question No. : 186

Which e-Library has been launched by the Union government for divyang?

A) E-Pustakalaya B) Divya Pustakalaya C) Sugamya Pustakalaya D) Nirvirodh Pustakalay

DIRECTIONS for the question: *Mark the best option:*

Question No. : 187

Which of the following airports has become world's first solar-run airport?

A) Jay Prakash International Airport B) Chandigarh International Airport C) Indira Gandhi International Airport
D) Cochin International Airport

DIRECTIONS for the question: *Mark the best option:*

Question No. : 188

Which Indian teenager has won the 2016 Google Community Impact Award from Asia in July 2016 ?

A) Riya Sharma B) Priyanka Singh C) Meghna Sharma D) Advay Ramesh

DIRECTIONS for the question: *Mark the best option:*

Question No. : 189

Prime Minister of which country (April 2016) resigned from his post after his name was revealed in the Panama paper leak?

A) Mexico B) France C) Bulgaria D) Iceland

DIRECTIONS for the question: *Mark the best option:*

Question No. : 190

The UDAY (Ujwal Discom Assurance Yojana) launched by the Government of India aims at ____

A) holistic development of heritage cities B) Financial Inclusion C) increasing the number of people getting insurance
D) revival of power distribution companies

DIRECTIONS for the question: *Mark the best option:*

Question No. : 191

'Paani Foundation', a not-for-profit company whose main objective will be to impart knowledge about water conservation and watershed management has been started by _____.

A) Shahrukh Khan &Gauri Khan B) Dilip Kumar &Saira Banu C) Amitabh Bachchan & Jaya Bachchan
D) Aamir Khan & Kiran Rao

DIRECTIONS for the question: *Mark the best option:*

Question No. : 192

What was the theme of the 2016 World Humanitarian Day?

A) One World: One Heart B) One Humanity C) Being Human D) Inspire the World's Humanity

DIRECTIONS for the question: *Mark the best option:*

Question No. : 193

What was the India's rank in terms of Foreign Direct Investment (FDI)inflows globally, as per the 2016 World Investment Report by UNCTAD?

A) 20^{th} B) 25^{th} C) 15^{th} D) 10^{th}

DIRECTIONS for the question: *Mark the best option:*

Question No. : 194

Shishu, Kishore and Tarun are the offerings of _____

A) Pradhan Mantri Jan Dhan Yojana B) Pradhan Mantri Shiksha Yojana C) Varanasi, Uttar Pradesh D) Vadodara, Gujarat

DIRECTIONS for the question: *Mark the best option:*

Question No. : 195

'Ganga Action Plan' initiated by the Union Government aims at

A) Streamlining the flow of Ganga River B) Reduction of Pollution on Ganga River.
C) Efficient use of Ganga water for irrigation. D) Using Ganga River for generating hydel energy.

DIRECTIONS for the question: *Mark the best option:*

DIRECTIONS for the question: *Mark the best option:*

Question No. : 196

Which of the following states are the first states in India where the integrated Criminal Justice System (CJS) will be launched?

A) Punjab and Haryana B) Madhya Pradesh and Chattisgarh C) Telangana and Andhra Pradesh
D) Gujarat and Maharashtra

DIRECTIONS for the question: *Mark the best option:*

Question No. : 197

Who among the following became the Chairman of the International Chamber of Commerce (ICC) in June 2016 ?

A) Sunil Bharti Mittal B) Mukesh Ambani C) Anil Ambani D) Ratan Tata

DIRECTIONS for the question: *Mark the best option:*

Question No. : 198

The low-cost train with wi-fi, entertainment screens and vending machines for passengers, announced by Indian Railways is _____.

A) Humsafar Express B) Antyodaya Express C) Tejas Express D) Deen Dayalu Express

DIRECTIONS for the question: *Mark the best option:*

Question No. : 199

India's first-ever Water Metro project has been launched in which of the following cities?

A) New Delhi B) Kochi C) Chandigarh D) Jaipur

DIRECTIONS for the question: *Mark the best option:*

Question No. : 200

India's first 'Railway University' is proposed to be set up in _____

A) Visakhapatnam, Andhra Pradesh B) Vijayawada, Andhra Pradesh C) Varanasi, Uttar Pradesh D) Vadodara, Gujarat

QNo:- 1 ,Correct Answer:- *D*

Explanation:-

$\frac{x^{1999}}{x^2-1}=\frac{x(x^{1998})}{x^2-1}=\frac{x(x^2)^{999}}{x^2-1}$, $\therefore$ Remainder is $x(1)^{999} = x$.

QNo:- 2 ,Correct Answer:- *C*

Explanation:-

Required no. of ways = No. of ways of selecting 3 ladies & 4 gentlemen - No. of ways of selecting them when X & Y got selected
= ${}^8C_3 \times {}^7C_4 - {}^7C_2 \times {}^6C_3 = 1960 - 420 = 1540.$
Thus, option C is correct.

QNo:- 3 ,Correct Answer:- *C*

Explanation:-

We are given that R = 2M = 3S. This means that Suresh is thrice efficient than Ramesh and Mahesh is twice efficient than Ramesh. So let us assume that Ramesh can do 1 unit work per day. so Mahesh will do 2 units per day and Suresh will do 3 units of the work

per day. So the total work done by all three in one day is 6 units. Now they together take 4 days to complete the work. So the total work is 6 x 4 = 24 units and individually Ramesh , Mahesh and Suresh will take 24 days, 12 days and 8 days respectively.

QNo:- 4 ,Correct Answer:- *C*

Explanation:-
The given sides are 20, 21 and 29 and $20^2 + 21^2 = 29^2$
Since it is a right angled triangle, so area = ½ × 20 × 21 = 210 sq m.

QNo:- 5 ,Correct Answer:- *A*

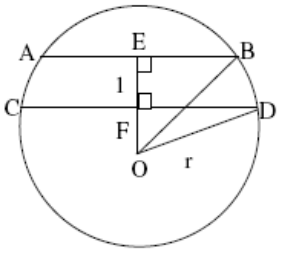
Explanation:-
We have 964 – 41 = 923, 1238 – 31 = 1207 and 1400 – 51 = 1349. So the required number is the HCF of 923, 1207 and 1349 which is 71. Hence 1st option.

QNo:- 6 ,Correct Answer:- *D*

Explanation:-
Slope of AC = (2-4)/(1-3) = 1. As diagonals in a rhombus bisect each other at 90°, so slope of BD = -1. Also diagonal BD has to lie on the point (3, 4), so equation of the line is y - 4 = - 1(x - 3) => x + y – 7 = 0.

QNo:- 7 ,Correct Answer:- *C*

Explanation:-



In the given figure, EB = 3 cm, FD = 4 cm, EF = 1 cm
Let OF = a cm
In triangle OFD, $r^2 = a^2 + 4^2$ & in triangle OEB, $r^2 = (a+1)^2 + 3^2$
Solving the above two equations, we get a = 3cm
Putting the value of a in any of the above equation, we get r = 5 cm
Therefore, diameter = 10 cm

QNo:- 8 ,Correct Answer:- *B*

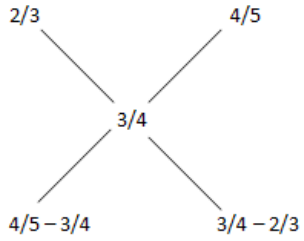
Explanation:-
For 600 kms. The Express train needs 6 hrs. for the distance travelled @ 100 kmph. and it will stop for (600/75)= 8. So there must be 7 stoppages in between where it stops for 3 min. each totalling upto 21 min. So total time will be 6 hrs.21 min.
*Now the Local train travelling @ 50 kmph. will cover 300 kms. in 6 hrs. and in **rest 9 min**. it will travel 7.5 kms.(300/25=12 stoppages where it will stop for 12 min. So, 21- 12 = 9). The total distance becomes 300 + 7.5 = 307.5 km.*

ALTERNATE SOLUTION
We can also think that since speed of express train is double the local speed , so local train will tavel less than 600 km , Only option b has such option and hence is the required answer.

QNo:- 9 ,Correct Answer:- *C*

Explanation:-

Applying Alligation Rule, we get



Required ratio = (4/5 – 3/4) : (3/4 - 2/3) = 3 : 5

QNo:- 10 ,Correct Answer:- *B*

Explanation:-

Let the capital was invested for x months.
So (5 × 8)/(6 × x) = 5/9. Solving this, we get x = 12

QNo:- 11 ,Correct Answer:- *C*

Explanation:-

$ax^2 + 2hxy + by^2 + 2gx + 2fy + c = 0$ represents a pair of straight lines that are parallel if $h^2 = ab$, $bg^2 = af^2$. Also the distance between them is given by $2\sqrt{\frac{g^2 - ac}{a(a+b)}}$

Here we have $x^2 + 2\sqrt{2}\,xy + 2y^2 + 4x + 4\sqrt{2}\,y + 1 = 0$

$\Rightarrow a = 1, h = \sqrt{2}, b = 2, g = 2, f = 2\sqrt{2}, c = 1, h^2 = \left(\sqrt{2}\right)^2 = 2$ and $ab = 1 \times 2 = 2$, $h^2 = ab$

Also $bg^2 = 2 \times 2^2 = 8$ and $af^2 = 1 \times \left(2\sqrt{2}\right)^2 = 8$, $bg^2 = af^2$. Thus the lines are parallel.

Distance $= 2\frac{\sqrt{2^2 - 1 \times 1}}{\sqrt{1(1+2)}} = \frac{2\sqrt{3}}{\sqrt{3}} = 2$

QNo:- 12 ,Correct Answer:- *C*

Explanation:-

Required probability = 1 – P (NO event will happen) = 1 – (5/7 × 5/11) = 52/77.

QNo:- 13 ,Correct Answer:- *A*

Explanation:-

In 12 hour, the hands of clock coincide 11 times and they make 180^0 also 11 times, thus total of 22 times

So in 24 hours, the hands of clock will be forming a straight line 22 + 22 = 44 times.

QNo:- 14 ,Correct Answer:- *A*

Explanation:-

Let the rate of flow be y kmph. The equation that will be formed is $\frac{91}{10+y}+\frac{91}{10-y}=20$

Solving we get y = 3.

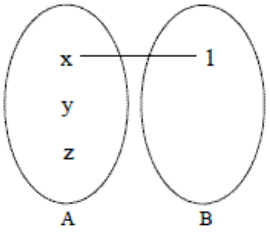
QNo:- 15 ,Correct Answer:- *A*

Explanation:-

f(x) = 1, f(y) ≠ 1 and f(z) ≠2

⇒ f(y) = either 2 or 3 &

f(z) = either 2 or 3, ⇒ $f^{-1}(1) = x$



QNo:- 16 ,Correct Answer:- *D*

Explanation:-

Old income = 5508/102 × 4 = Rs. 216. No. of shares purchased = 5508/102 = 54. So sale proceeds = (54 × 105) = Rs. 5670.
Therefore, New income = (5670 × 5)/126 = Rs. 225.
So change in income = 225 – 216 = Rs. 9.

QNo:- 17 ,Correct Answer:- *A*

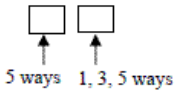
Explanation:-

Going by options, if the no of sides are 4 and 8, then the interior angles of the polygons is 90^0 and 135^0 (int angles = 180^0(N-2)/N)

which are in the ratio 2 : 3. So the answer is 1^{st} option.

QNo:- 18 ,Correct Answer:- *B*

Explanation:-



Here unit place can be filled in 3 ways (i.e. 1, 3, 5)

Ten's place can be filled in 5 ways. Required number of numbers = 5 × 3 = 15

QNo:- 19 ,Correct Answer:- *A*

Explanation:-

Required ratio = $= \frac{\frac{3}{7}+\frac{4}{9}+\frac{5}{11}}{\frac{4}{7}+\frac{5}{9}+\frac{6}{11}} = \frac{920}{1159}$. Hence answer is 1st option.

QNo:- 20 ,Correct Answer:- *D*

Explanation:-
If both filling pipes are working together, time taken to fill the tank will be 14 x 16/(14 + 16) = 112/15 hrs.
But due to leak it takes 32 min more. Hence total time taken = 112/15 + 32/60 = 8 hrs.
Let the leak takes x hours to empty the tank, so, 1/14 + 1/16 - 1/x = 1/8.
By solving we get the answer as 112 hours. So answer is 4th option.

QNo:- 21 ,Correct Answer:- *C*

Explanation:-
Suppose the price of the toothpaste is Rs. 10. In the first offer, the price per gram would be Rs. 10/130 while in the second offer, the price per gram would be Rs. 7/100. So the first offer is costlier than the second offer by 10/130 – 7/100 = Rs. 9/1300. Hence the first offer is costlier than the second one by 9/1300 ÷ 7/100 × 100 = 9.89%. So the answer is 3rd option.

QNo:- 22 ,Correct Answer:- *A*

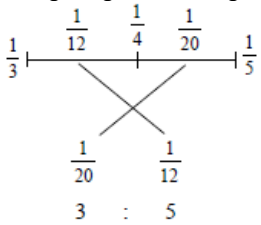
Explanation:-
Required volume = Outer volume of the box - Inner volume = (120 · 80 · 40) – (115 · 75 · 35) = 82125 cu. cm.

QNo:- 23 ,Correct Answer:- *B*

Explanation:-
Correct mean = 40 – 10/200 = 39.95. Also standard deviation will be a value less than 15 and will be very close to it.

QNo:- 24 ,Correct Answer:- *C*

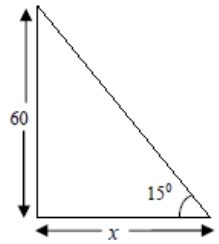
Explanation:-
Using Alligations, we get



Therefore, the required ratio = 3 : 5.

QNo:- 25 ,Correct Answer:- *B*

Explanation:-



If the required distance is x, then $60/x = \tan 15^0$

$\tan 15^0 = \tan(45^0 - 30^0) = \dfrac{\tan 45^0 - \tan 30^0}{1 + \tan 45^0 \tan 30^0}$

$= \dfrac{1 - \frac{1}{\sqrt{3}}}{1 + \frac{1}{\sqrt{3}}} = \dfrac{\sqrt{3}-1}{\sqrt{3}+1}$

$\Rightarrow x = \dfrac{60}{\frac{\sqrt{3}-1}{\sqrt{3}+1}} = \dfrac{60(\sqrt{3}+1)}{(\sqrt{3}-1)}$

QNo:- 26 ,Correct Answer:- *C*

Explanation:-

Solving this expression,

$\dfrac{(1.073)^2 - (0.927)^2}{(1.073 - 0.927)} + \dfrac{3^{16} \times (3^2)^6}{(3^3)^7 \times 3^9}$

$= \dfrac{(1.073 - 0.927)(1.073 + 0.927)}{(1.073 - 0.927)} + \dfrac{3^{16} \times 3^{12}}{3^{21} \times 3^9}$

$= (1.073 + 0.927) + \dfrac{3^{28}}{3^{30}} = 2 + \dfrac{1}{3^2}$

$= 2 + \dfrac{1}{9} = \dfrac{19}{9} = 2\dfrac{1}{9}$

we get the answer as 3rd option.

QNo:- 27 ,Correct Answer:- *A*

Explanation:-

$x^4 + \dfrac{1}{x^4} + 2 = 47 + 2 \Rightarrow x^2 + \dfrac{1}{x^2} = 7.$ Also $x^2 + \dfrac{1}{x^2} + 2 = 9 \Rightarrow x + \dfrac{1}{x} = 3.$

Now $\left(x + \dfrac{1}{x}\right)^3 = x^3 + \dfrac{1}{x^3} + 3\left(x + \dfrac{1}{x}\right) \Rightarrow 27 = x^3 + \dfrac{1}{x^3} + 3(3) \Rightarrow x^3 + \dfrac{1}{x^3} = 18.$

QNo:- 28 ,Correct Answer:- *B*

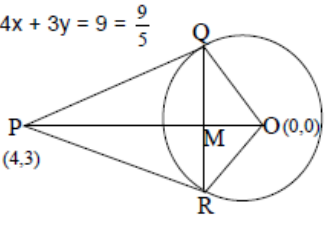
Explanation:-

The equation of chord of tangents drawn from P(4, 3) to $x^2 + y^2 = 9$ is $4x + 3y = 9$. Now OM = Length of $\perp$ from (0,0) on $4x + 3y = 9 = \dfrac{9}{5}$

$\Rightarrow QR = 2QM = 2\sqrt{OQ^2 - OM^2} = 2\sqrt{9 - \dfrac{81}{25}} = \dfrac{24}{5}$

Now $PM = OP - OM = 5 - \dfrac{9}{5} = \dfrac{16}{5}$

$\Rightarrow$ Area of $\Delta PQR = \dfrac{1}{2} \times \dfrac{24}{5} \times \dfrac{16}{5} = \dfrac{192}{25}$ sq. units.



QNo:- 29 ,Correct Answer:- *B*

Explanation:-

As there are 20 stations in total, so number of tickets = $^{20}P_2 = 380$.

QNo:- 30 ,Correct Answer:- D

Explanation:-

Given $z = \frac{1-i\sqrt{3}}{1+i\sqrt{3}} = \frac{-w}{-w^2} = \frac{1}{w} = w^2 \therefore \arg(z) = \arg(w^2) = \frac{4\pi}{3}$

QNo:- 31 ,Correct Answer:- A

Explanation:-

$$\frac{1}{\sqrt{5}+\sqrt{3}} + \frac{2}{3+\sqrt{5}} - \frac{3}{3+\sqrt{3}}$$

By rationalizing the denominators of above expressions.

$$\frac{\sqrt{5}-\sqrt{3}}{(5-3)} + \frac{2(3-\sqrt{5})}{(9-5)} - \frac{3(3-\sqrt{3})}{(9-3)} \Rightarrow \frac{\sqrt{5}-\sqrt{3}}{2} + \frac{3-\sqrt{5}}{2} - \frac{3-\sqrt{3}}{2}$$
$$\Rightarrow \frac{\sqrt{5}-\sqrt{3}+3-\sqrt{5}-3+\sqrt{3}}{2} \Rightarrow 0$$

QNo:- 32 ,Correct Answer:- C

Explanation:-

The maximum difference = 54321 – 12345 = 41976. 47916 cannot be the difference as it is more than 41976.

QNo:- 33 ,Correct Answer:- D

Explanation:-

On solving this expression,

$$= \frac{\frac{8}{7} - \frac{2}{3} + \left(\frac{2}{5} \times \frac{25}{24}\right)}{1 - \frac{1}{7}\left[\frac{1}{3} - \left(\frac{2}{5} \times \frac{5}{3}\right)\right]}$$
$$= \frac{\frac{8}{7} - \frac{2}{3} + \frac{5}{12}}{1 - \frac{1}{7}\left(\frac{1}{3} - \frac{2}{3}\right)}$$
$$= \frac{\frac{75}{84}}{1 + \frac{1}{7} \cdot \frac{1}{3}} = \frac{\frac{75}{84}}{\frac{22}{21}}$$
$$= \frac{75}{88}$$

we get the answer as $\frac{75}{88}$ *which is the* 4^{th} *option.*

QNo:- 34 ,Correct Answer:- D

Explanation:-

$2^{12} = 4096$, *4096 – 46 = 4050 which is divisible by 3 and 5.*
So, the correct answer is option D.

QNo:- 35 ,Correct Answer:- D

Explanation:-

$\text{Log}_{12} 27 = a \Rightarrow 12^a = 27 \Rightarrow 6^a . 2^a = 3^3$. Talking Log to the base 6, both sides

$\text{Log}_6 6^a + \text{Log}_6 2^a = \text{Log}_6 3^3 \Rightarrow a + a\text{Log}_6 2 = 3\text{Log}_6 3 + \text{Log}_6 2^3 - \text{Log}_6 2^3$

$\Rightarrow a + a\text{Log}_6 2 = 3\text{Log}_6 6 - 3\text{Log}_6 2 \Rightarrow (3+a)\text{Log}_6 2 = (3-a) \Rightarrow \text{Log}_6 2 = \frac{3-a}{3+a}$

$\Rightarrow \text{Log}_6 16 = 4\text{Log}_6 2 = \frac{4(3-a)}{(3+a)}$.

So answer is 4th option.

QNo:- 36 ,Correct Answer:- *A*

Explanation:-
The given expression can be written as

$$\Rightarrow\left(\frac{1}{1}-\frac{1}{2}\right)+\left(\frac{1}{2}-\frac{1}{3}\right)+\left(\frac{1}{3}-\frac{1}{4}\right)-\cdots\cdots\cdots-\left(\frac{1}{100}-\frac{1}{101}\right)\Rightarrow\left(1-\frac{1}{101}\right)\Rightarrow\frac{100}{101}$$

Hence, option A is correct.

QNo:- 37 ,Correct Answer:- *D*

Explanation:-
LCM (4, 5, 6, 8, 9) = 360. We need a multiple of 13 and no remainder should be there, So it will be in the form 360 k + 2. We will check for the multiple of 13 where it satisfies. If the value of k is 7 then it satisfies. i.e. 2520 + 2 = 2522 is totally divisible by 13.

QNo:- 38 ,Correct Answer:- *B*

Explanation:-
For the value of k = 3, (k + 4) is divisible by 7. And for $(k + n^2)$ to be divisible by 7 the minimum value of n is 5.

QNo:- 39 ,Correct Answer:- *A*

Explanation:-

5% salt by weight means 2 kgs out of 40 kgs is salt.

Let x be the total amount of mixture

Therefore, 2% of x = 2 → x = 100 kg

So the amount of fresh water to be added in the mixture is 100 – 40 = 60 kg

QNo:- 40 ,Correct Answer:- *D*

Explanation:-
Since it is given that length is sufficient for 6 m and 8 m gaps so it must be a common multiple of 6 & 8 which out of choices can be 120 mts. only. Now as a concept to generate 15 gaps (= 120/8), you need 16 poles. So, answer is 4th option.

QNo:- 41 ,Correct Answer:- *D*

Explanation:-
Volume of the sphere = $4/3\pi r^3 = 4/3 \times 3^3 \times \pi = 36\pi$
Volume of the small spheres (1) = $4/3 \times (1.5)^3 \times \pi = 4.5\pi$
Volume of the small spheres (2) = $4/3 \times (2)^3 \times \pi = 32/3\pi$
So the volume of the 3rd sphere = $36\pi - 10.67\pi - 4.5\pi = 125/6\pi$.
Let the radius of the 3rd sphere is R, therefore,
$4/3\pi R^3 = 125/6\pi$

$\Rightarrow R = 2.5$ cm

Hence, the correct answer is option D.

QNo:- 42 ,Correct Answer:- *A*

Explanation:-

If p,q,r are three terms in GP then q/p = r/q. Taking log to the base n on both sides

$\log_n q/p = \log_n r/q \Rightarrow \log_n q - \log_n p = \log_n r - \log_n q$

This implies $\log_n p$, $\log_n q$, $\log_n r$ are in AP therefore the $\log_p n$, $\log_q n$, $\log_r n$ are in HP.

QNo:- 43 ,Correct Answer:- *D*

Explanation:-

75% of the total population consists of:

50000 people suffering of TB, 40000 suffering from hypertension and 15000 TB and Hypertension both. So the population of unhealthy people is 50000 + 40000 – 15000 = 75000. Since 75000 = 75% of total population, so total population = 100000. So,the correct answer is option D.

QNo:- 44 ,Correct Answer:- *D*

Explanation:-

Repayment amount on loan of Rs. 2000000 = 18000×20×12 = 4320000
Repayment amount on loan of Rs. 1500000 = 20600×15×12 = 3708000
Difference = Rs. 612000

QNo:- 45 ,Correct Answer:- *A*

Explanation:-

Total amount repaid over a period of 25 years = 12650×12×25 = Rs. 3795000

QNo:- 46 ,Correct Answer:- *A*

Explanation:-

Monthly repayment is reduced by Rs. 1000. So the total reduction = 1000×12×20 = 2,40,000.

QNo:- 47 ,Correct Answer:- *A*

Explanation:-

Difference between the repayment for a period of 15 years and repayment period for 10 years = 10300 × 15 × 12 – 19400 × 10 × 12 = Rs. 474000

QNo:- 48 ,Correct Answer:- *B*

Explanation:-

Number of students in each course:
TA = 7, MBCA = 5, YCA = 4, DMBC = 6
XA = 4, PG = 6, PM = 8
So the correct answer choice is (2)

QNo:- 49 ,Correct Answer:- *C*

Explanation:-

Roll Numbers 9 and 10 have all the four common optional subjects.

QNo:- 50 ,Correct Answer:- *B*

Explanation:-

Optional subjects PM was chosen by Eight students.

QNo:- 51 ,Correct Answer:- *D*

Explanation:-
Roll Numbers 9 and 10 have the same optional subjects.

QNo:- 52 ,Correct Answer:- *A*

Explanation:-
1st Statement is a test for checking whether a no. is prime or not, So from statement 1 it can be answered.
But from statement 2 nothing can be concluded.
Hence answer is option A.

QNo:- 53 ,Correct Answer:- *A*

Explanation:-
From 1st statement, $y^2-x^2 = 0 \Rightarrow y^2 = x^2 \Rightarrow \frac{x^2}{y^2} = 1$

So 1st statement is enough to answer the question.
Second statement does not provide any concrete data. So answer is 1.

QNo:- 54 ,Correct Answer:- *C*

Explanation:-
From 1 $\Rightarrow$ purchase price = $\frac{90\times100}{120}$ = Rs. 75
$\therefore$ Profit = 100 – 75 = Rs. 25, From II $\Rightarrow$ Let the purchase price be x
Then, $x+\frac{x}{3}=100$, $\Rightarrow$ x = 75, $\therefore$ Profit = 100 – 75 = Rs. 25
Hnece question can be answered from both the questions.

QNo:- 55 ,Correct Answer:- *C*

Explanation:-
From 1$\Rightarrow$SI of one year = 3600 ÷5 = 720
$\therefore$ Rate of compound interest $=\frac{43.20\times100}{720}=6\%$
From II $\Rightarrow \left[12000\left(1+\frac{r}{100}\right)^3-12000\right]-\frac{12000\times3\times r}{100}=132.19$
From the above equation r can be calculated i.e. 6%

QNo:- 56 ,Correct Answer:- *B*

Explanation:-
From A $\Rightarrow$ Total marks = $\frac{20\times100}{4}=500$, From B = 0.35M + 25 = 0.4M

$\Rightarrow$ M = 500. $\therefore$ Pass marks = $500\times\frac{38}{100}+8=198$ = 0.35M + 23 = 198, So 2nd option

QNo:- 57 ,Correct Answer:- *B*

Explanation:-
From B, ratio of investment can be calculated and with the help of either A or C, share of R in the profit can be determined.

QNo:- 58 ,Correct Answer:- *D*

Explanation:-
We have to use all the three statements to answer the question. LP = 3060/0.85 = 3600. Profit = 0.02 x 3600 = 72.

QNo:- 59 ,Correct Answer:- *D*

Explanation:-
From B, 1m = 2W & From C, 1m = 300 days

QNo:- 60 ,Correct Answer:- *D*

Explanation:-
Using first two staements, we can find length and then the cost.
Using second and third statement, again we can find the length and then the cost.
Similarly in the first and third statement, using the ratio of the length and breadth we can find the cost.

QNo:- 61 ,Correct Answer:- *A*

Explanation:-
Gross receipts for Mega Burger are 8.4 and Pizza Pie is 6.4. the difference is 2

QNo:- 62 ,Correct Answer:- *B*

Explanation:-
*Percentage increase in mega burger is 100 *1/2.5 = 40%. The percentage increase in pizza pie is 100 * 2/1 = 200%. Hence pizza pie is 5 times than mega burger. Thus option 2.*

QNo:- 63 ,Correct Answer:- *D*

Explanation:-
Answer is Cannot be determined as no data about the reason of decline in crunchy chicken is given.

QNo:- 64 ,Correct Answer:- *C*

Explanation:-
From A $\Rightarrow$ Let the longest piece by x m long.
Then, $x + (x - 1) + (x - 1) = 25, \Rightarrow x = 9m$

QNo:- 65 ,Correct Answer:- *D*

Explanation:-
Let us take the numbers as 7, 5, 2 and 1. Now checking the options given we can observe that the question can be answered with any two of the three statements. The average of a & d is 4 and the average of all the numbers a, b, c, d and e is 3.75. So, we can say that answer is yes.

QNo:- 66 ,Correct Answer:- *D*

Explanation:-
All the three statements are necessary to answer the question.

QNo:- 67 ,Correct Answer:- *C*

Explanation:-
From B and C: Area = $\frac{1}{2} \times 16 \times 16\sqrt{2} = 144\sqrt{2}$ cm^2

QNo:- 68 ,Correct Answer:- *D*

Explanation:-
The total production of cars is 286. The 50% of that is 143. Hence seeing the table it can be said, cars are not more than 50% in any of the given years. Hence 4th option.

QNo:- 69 ,Correct Answer:- *C*

Explanation:-
Motorbike = 600000 × .2 = 120000. Scooter = 480000 × .12 = 57600
Car = 400000 × .1 = 40000
Total = 120000 + 57600 + 40000 = 217600

QNo:- 70 ,Correct Answer:- *C*

Explanation:-
Cars : Scooter : Motorbike
(0.42) (38) : (0.28) (48) : (.35) (60) = 19 : 16 : 25

QNo:- 71 ,Correct Answer:- *A*

Explanation:-
Cars exported in 1998 = .25 × 84 = 21
Scooters exported in 1998 = .3 × 75 = 22.5
Motorbike exported in 1998 = .4 ×60 = 24
Ratio of prices of Cars : Scooters : Motorbike is 2: 1: 1.5
Export earning ratio is 21×2 : 1× 22.5 : 1.5 × 24 = 4:2:3

QNo:- 72 ,Correct Answer:- *C*

Explanation:-
Checking all the choices the percentage for 1996 = 60/146 = 88%.
1997 = 44/140 = 62%.
1999 = 60 /148 = 40%.
2000 = 34/162 = 55%. Hence answer is 1999.

QNo:- 73 ,Correct Answer:- *B*

Explanation:-
Annual income = Rs. 1,50,000 p.a.
Taxable income after standard deduction = 1,50,000 – 30,000 = 1,20,000.
Tax for 50,000 – 60, 000 = 10000×10/100 = Rs. 1000
Tax for rest amount = (120000 – 60000) × 20/100 = Rs. 12000
Total tax = 1000 + 12000 = 13000, Rebate from savings = 40000 × 20/100 = Rs. 8000
Net tax after surcharge = (13000 – 8000) × 10/100 + 5000 = Rs. 5500

QNo:- 74 ,Correct Answer:- *C*

Explanation:-
Taxable income after standard deduction = 1,55,000 – 25,000 = 1,30,000.
Tax for (50,000 – 60,000) = 10000 × 0.1 = Rs. 1000.
Tax for rest amount = (1,30,000 – 60,000) = 70,000 × 0.2 = Rs. 14000.
Total tax = 1000 + 14000 = Rs. 15000.
Rebate from Savings = 40,000 × 0.15 = Rs. 6000.
So Net tax after surcharge = (15000 – 6000) × 0.1 + 9000 = 900 + 9000 = 9900.
Income after tax when income was 1,50,000 = 1,50,000 – 5500 = 1,44,500.

Income after tax when income was 1,55,000 = 1,55,000 – 9900 = 1,45,100.
Now, difference in income after tax before and after = 1,45,100 – 1,44,500 = 600. So there is an increase of Rs. 600. So answer is 3rd option.

QNo:- 75 ,Correct Answer:- *B*

Explanation:-
Tax for an amount of Rs. 15, 0000 is Rs. 13, 000. Working women have an additional rebate of Rs. 5000. So, Rs. 8000 has to be saved from investment.

$\therefore$ Investment = $\frac{8000\times100}{20}$ = Rs. 40, 000

QNo:- 76 ,Correct Answer:- *D*

Explanation:-
Total income = 144000 + 35000 = Rs. 179000
Taxable income = 179000 – 25000 = 154000. Now tax up to Rs 60000 = Rs. 1000
Tax for rest amount = 90000 × 20/100 + 4000 × 30/100 = 18000 + 1200 = Rs. 19200.
Total tax = 1000 + 19200 = Rs. 20200.
Rebate from savings = 70000 × 15/100 = Rs. 10500.

QNo:- 77 ,Correct Answer:- *A*

Explanation:-
Total sales volume of Esteem in 2003 = $653610 \times \frac{20}{100} = 130722$

Total revenue of Esteem in 2003 = $1139200 \times \frac{17}{100}$ = Rs. 193664 million

$\therefore$ Net revenue per Esteem sold = $\frac{193664\times1000000}{130722} = 14{,}81{,}000$ (approx.)

QNo:- 78 ,Correct Answer:- *B*

Explanation:-
Revenue per unit of Zen = 3417.6 / 19608.3 × 10^6 = 174293.
Revenue per unit of Esteem = 193664 / 130722 × 10^6 = 1481495. Revenue per unit of M800 = 546816 / 379093 × 10^6 = 1442432.
Revenue per unit of Omni = 239232 / 71897 × 10^6 = 3327426. Hence Omni has highest revenue per unit.

QNo:- 79 ,Correct Answer:- *D*

Explanation:-
Present volume of sales of Omni = $653610 \times \frac{11}{100} = 71897$

Now, 25% of 71897 = $25 \times \frac{71897}{100} = 17974$

Present volume of M800 = $653610 \times \frac{58}{100} = 379093$.

$\therefore$ Required % $\frac{17974\times100}{379093} = 4.75\%$ (approx.)

QNo:- 80 ,Correct Answer:- *C*

Explanation:-

Revenue from Alto = $1139200 \times \frac{11}{100} = 125312$

Revenue after excluding Alto 1139200 – 125312 = 1013888

Revenue from Zen = $1139200 \times \frac{3}{100} = 34176$

$\therefore$ Required % = $\frac{34176 \times 100}{1013888} = 3.37\%$

QNo:- 81 ,Correct Answer:- *D*

Explanation:-
Percentage revenue share of Zen and Omni = 3 + 21 = 24%.Percentage revenue share of Alto = 11%. Twice of this is 22% which is not greater than 24%.Hence, (i) is not true.
Alto's revenue per unit after interchange =193664 / 52289 × 10^6 = 3703723. Likewise revenue per unit of Zen = 3417.6 / 19608.3 × 10^6 = 174293. Hence, (ii) is true
Revenue per unit of Esteem = 193664 / 130722 × 10^6 = 1481495. Revenue per unit of M800 = 546816 / 379093 × 10^6 = 1442432. Hence (iii) is true. So option 4th.

QNo:- 82 ,Correct Answer:- *D*

Explanation:-
Imports from Australia for Japan, Russia and South Asia cannot be found because Russia's and East Europe's imports are not determinable individually.

QNo:- 83 ,Correct Answer:- *A*

Explanation:-
Total domestic demand of Russia and East Europe as shown by the bar chart is more than 50.

QNo:- 84 ,Correct Answer:- *A*

Explanation:- *From the given information, we can make the following arrangement.*

Person	D	F	E	C	A/G	G/A	B
Profession	Architect	Teacher	Psychologist	Businessman	Engineer/Doctor	Doctor/Engineer	Student
Rank of Intelligence	6	7	1	2	4/3	3/4	5

Therefore F is sitting on the immidiate right of D.

QNo:- 85 ,Correct Answer:- *B*

Explanation:- *From the given information, we can make the following arrangement.*

Person	D	F	E	C	A/G	G/A	B
Profession	Architect	Teacher	Psychologist	Businessman	Engineer/Doctor	Doctor/Engineer	Student
Rank of Intelligence	6	7	1	2	4/3	3/4	5

Hence F is sitting second from the left.

QNo:- 86 ,Correct Answer:- *D*

Explanation:- *From the given information, we can make the following arrangement.*

Person	D	F	E	C	A/G	G/A	B
Profession	Architect	Teacher	Psychologist	Businessman	Engineer/Doctor	Doctor/Engineer	Student
Rank of Intelligence	6	7	1	2	4/3	3/4	5

So businessman is more intelligent than engineer.

QNo:- 87 ,Correct Answer:- *D*

Explanation:-
From the given information, we can make the following arrangement.

Person	D	F	E	C	A/G	G/A	B
Profession	Architect	Teacher	Psychologist	Businessman	Engineer/Doctor	Doctor/Engineer	Student
Rank of Intelligence	6	7	1	2	4/3	3/4	5

There is no clear information with which we can determine the couples so we cannot say if any of the options cannot be a couple. So, answer is None of These.

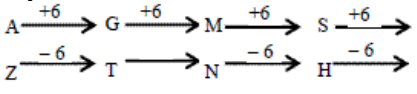
QNo:- 88 ,Correct Answer:- *B*

Explanation:-
From the given information, we can make the following arrangement.

Person	D	F	E	C	A/G	G/A	B
Profession	Architect	Teacher	Psychologist	Businessman	Engineer/Doctor	Doctor/Engineer	Student
Rank of Intelligence	6	7	1	2	4/3	3/4	5

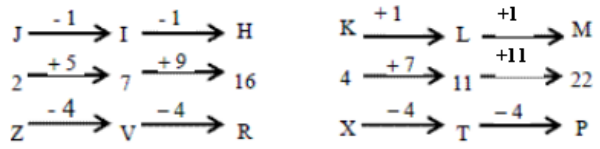
Hence the correct order is CDF.

QNo:- 89 ,Correct Answer:- *C*

Explanation:-


Hence SH.

QNo:- 90 ,Correct Answer:- *D*

Explanation:-
The series is a combination of two series.


Hence L11T.

QNo:- 91 ,Correct Answer:- *C*

Explanation:-
The order made by putting the choice ifgie in the respective blanks we get the order as gfeii--gfeii--gfeii--gfeii.

QNo:- 92 ,Correct Answer:- *B*

Explanation:-
Starting from the left, two letters of each block are written in reverse order.
Hence LEGIBIEL will become ELIGIBLE. So option 2.

QNo:- 93 ,Correct Answer:- *D*

Explanation:-
The letters are coded as numerical position in the alphabet. Hence 31385 becomes CACHE. So option 4.

QNo:- 94 ,Correct Answer:- *A*

Explanation:-
X being son is male so he is the brother of Y.
As Y is not the brother, Y must be the sister of X.

As X is the brother, the answer is option A.

QNo:- 95 ,Correct Answer:- *C*

Explanation:-
For Ravi the value are 4km, 5km, 6km and 7 km.
For Prabhu, the values are 7km, 8km and 9 km.
If both are correct then their common value will be the answer.
Hence Madhuri is 7 km away from the rock.

QNo:- 96 ,Correct Answer:- *C*

Explanation:-
Option A, Option B and Option D are mathematical operators whereas % (Option C) is different.

QNo:- 97 ,Correct Answer:- *D*

Explanation:-
After exchanging positions, Bushan becomes fifteenth instead of seventh from the left, it means there are 7 students between them.
So Motilal's position from right will become twelfth.

QNo:- 98 ,Correct Answer:- *D*

Explanation:-
A clock gaining 2 min. and another losing 1 min. would have a difference of 3 min. in one hour.
So by 11 in the morning the difference would be = [11·(2 + 1)] = 33 min.

QNo:- 99 ,Correct Answer:- *A*

Explanation:-
If both are correct, i.e. > 3 < 8 and > 6 < 10 only 7 is common. So Sudha's marks in the unit test were 7. Hence answer is option 1.

QNo:- 100 ,Correct Answer:- *D*

Explanation:-
Argument I is weak because the cost of a commodity can't be an excuse if it is good for health. Democracy doesn't mean only rights and no duties. Hence argument II is also weak.

QNo:- 101 ,Correct Answer:- *B*

Explanation:-
Computerization no longer demands a lot of money. Argument II makes sense. If we have to compete with rest of the world, we have to follow the new trends and technologies.

QNo:- 102 ,Correct Answer:- *B*

Explanation:-
Personal tax doesn't stop people from earning more. Hence argument I is weak while argument II is strong. A welfare economy demands sharing of wealth.

QNo:- 103 ,Correct Answer:- *C*

Explanation:-
Either of the two arguments are strong as high chimneys will reduce pollution at the ground level ,on the oter hand will also increase pllution in the upper atmosphere.

QNo:- 104 ,Correct Answer:- *A*

Explanation:-
Arguement 1 is strong because if, the judiciary is independent only then it will be able to curb the unlawful activities of the exective .

QNo:- 105 ,Correct Answer:- *C*

Explanation:-
the facts provided in the passage talks about aims and objectives of reforms but it does not say anything about time prior to reforms so nothing can be said.

QNo:- 106 ,Correct Answer:- *A*

Explanation:-
the word 'introduction' in the passage tells that Bank capital adequacy was not in operations before.

QNo:- 107 ,Correct Answer:- *A*

Explanation:-
the line '.....is aimed at installing public confidence.....' shows that reforms have something to do with confidence generation in the public regarding resource mobilisation.

QNo:- 108 ,Correct Answer:- *D*

Explanation:-
passage says 'the reforms are aimed at wide cross section of the society.

QNo:- 109 ,Correct Answer:- *D*

Explanation:-

From the very first sentences – "In order to boost sales of toys at times other than the peak sale time"- the prime aim of the manufacturer and promoter is clear that sales need to be bolstered.

QNo:- 110 ,Correct Answer:- *A*

Explanation:-
It is clearly mentioned that they assigned defined tasks to each man which they would repeat on every car. So they believed in division of labour.

QNo:- 111 ,Correct Answer:- *B*

Explanation:-
Read the lines"..However, it can be demonstrated that people who have taken drugs for fun are more likely to become dependent on the drug."

QNo:- 112 ,Correct Answer:- *D*

Explanation:-
A is correct because the cause is refering to gamblers and the effect is about unsavoury characters So,connection between the two should be evident.

QNo:- 113 ,Correct Answer:- *A*

Explanation:-
Refer last line….By reducing our use of petroleum products …….. national energy independence and so enhance our country's security. i.e most of it is used to make plastics. Therefore option 1 opposes this. Hence correct.

QNo:- 114 ,Correct Answer:- *A*

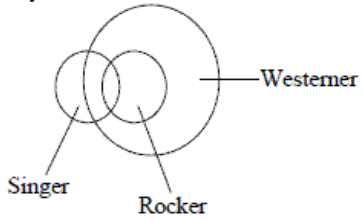
Explanation:-
the assumption is that money can motivate the students to take up this profession of teaching but what if the students are not interested in this career option at all. so they will not join the teaching profession inspite of all incentives provided.this is what answer option is doing.

QNo:- 115 ,Correct Answer:- *D*

Explanation:-
we have been successful because of the advancement in the field of the I.T and initiative taken by indians, especially by the middle class,has made significant progress.if we keep on moving like this, we can sustain success.

QNo:- 116 ,Correct Answer:- *A*

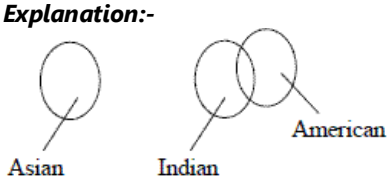
Explanation:-



It can be seen that I, II and III follow.

QNo:- 117 ,Correct Answer:- *C*

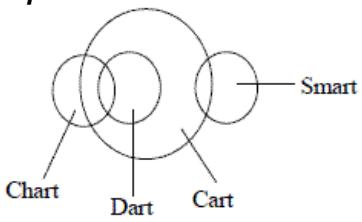
Explanation:-



It can be seen from the figures that I & III follow.

QNo:- 118 ,Correct Answer:- *C*

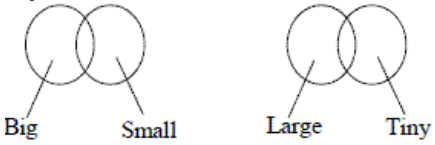
Explanation:-



It can be seen that only I & II follow.

QNo:- 119 ,Correct Answer:- *D*

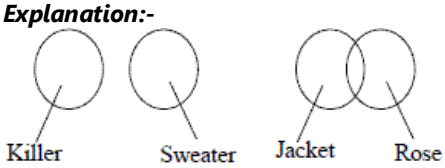
Explanation:-



It can be seen that none of conclusions follows.

QNo:- 120 ,Correct Answer:- *B*

Explanation:-



It can be seen that only II follows. But III and IV do make a complimentruy pair. Thus besides II, it is either III or IV follows.

QNo:- 121 ,Correct Answer:- *D*

Explanation:-
The writer follows the normal code of conduct of being civil even while he does contrary to what he was asked to do. Hence,[4]

QNo:- 122 ,Correct Answer:- *A*

Explanation:-
Refer to 2nd paragraph and read, '....that virtue and innocence.....indiscretion,' also, 'A moral which.....success.' Hence, [1]

QNo:- 123 ,Correct Answer:- *A*

Explanation:-
Refer to the 1st paragraph and read, '...in which virtue becomes.....charms.' Hence, [1]

QNo:- 124 ,Correct Answer:- *C*

Explanation:-
Refer the concluding paragraph, 'Pardon, therefore,.....against it.' Hence, [3]

QNo:- 125 ,Correct Answer:- *A*

Explanation:-
It is not a play as the writer says, 'books of this kind', it is also not a comedy or fable as the writer is stating his own point of view. Hence, [1]

QNo:- 126 ,Correct Answer:- *A*

Explanation:-
refer line 1, of the last para - Pardon, therefore, what I have said in this epistle, not only without your consent, but absolutely against it; and give me leave, in this public manner, thus the answer 1.

QNo:- 127 ,Correct Answer:- *B*

Explanation:-
The second last line of 2nd paragraph supports the answer choice.

QNo:- 128 ,Correct Answer:- *D*

Explanation:-
The first line of penultimate paragraph - A six-year-old might have difficulty in recognising that plea and pray begin with the same initial sound. This is a phonemic judgment. , supports the choice.

QNo:- 129 ,Correct Answer:- *C*

Explanation:-
Refer to the last line of the 1st paragraph- Children with poor phonological skills progress more poorly. In particular, those who have a specific phonological deficit are likely to be classified as dyslexic by the time that they are 9 or 10 years old.. Hence [3]

QNo:- 130 ,Correct Answer:- *C*

Explanation:-
refer second last line of concluding passage - Treiman and Zudowski showed that four and five-year-old children found the onset-rime version of the same/different task significantly easier than the version based on phonemes.

QNo:- 131 ,Correct Answer:- *B*

Explanation:-
refer line 2 , para 1 - The motivating effects of the need to correct incongruity, imbalance, or dissonance has been the occasion for several theories.thus the answer is option B

QNo:- 132 ,Correct Answer:- *C*

Explanation:-
Read 1st sentence of the 2nd paragraph- The theory goes on to make some non-obvious predictions; for example, in some cases, failure of expectations instead of destroying belief may strengthen it.. Hence, [3]

QNo:- 133 ,Correct Answer:- *D*

Explanation:-
refer line 8 , last para - For such a pervasive type of motive, the expression self-actualization was coined, originally by Carl Jung, one of Freud's followers who later developed a system of his own. By self-actualization, he meant the development of full individuality, with all parts somehow in harmony. The term and closely related ones (productive orientation, creative becoming, etc.) have been used by man) psychologists who criticize contemporary motivational theory as being too narrow concerned with short episodes of choice and behaviour rather than with the more profound and pervasive aspects of individual hopes and aspirations.

QNo:- 134 ,Correct Answer:- *D*

Explanation:-
The language used by the writer is simple and lucid enough for an average reader to understand the text, much like that of a magazine. Hence, [4]

QNo:- 135 ,Correct Answer:- *D*

Explanation:-
The main idea of the passage revolves around cognitive dissonance and the self. Hence, [4]

QNo:- 136 ,Correct Answer:- *D*

Explanation:-
all of the sentences are mentioned in the passage , and the author agrees with them , hence the answer is option D.

QNo:- 137 ,Correct Answer:- *C*

Explanation:-
vagabond means 'wanderer' and 'peripatetic' means life of a wanderer pertaining to itinerant. the key words are 'wandering through the countryside.....

QNo:- 138 ,Correct Answer:- *D*

Explanation:-
The key word is 'though' meaning that it has not served the purpose. Hence, [4]

QNo:- 139 ,Correct Answer:- *A*

Explanation:-
If criminals are elected, you cannot expect harmony and brotherhood to increase. Hence, [1]

QNo:- 140 ,Correct Answer:- *B*

Explanation:-
Only option 2 brings out the correct information that despite fighting bravely they could not succeed. Hence, [2].

QNo:- 141 ,Correct Answer:- *B*

Explanation:-
'subservient' means' highly submissive' therefore opposite will be 'disobediant'.

QNo:- 142 ,Correct Answer:- *C*

Explanation:-

'distraught' means 'extremely upset'

QNo:- 143 ,Correct Answer:- *C*

Explanation:-
'myopic' means 'narrow minded' or 'short sighted'.

QNo:- 144 ,Correct Answer:- *B*

Explanation:-
'tenacious' means 'unyeilding'

QNo:- 145 ,Correct Answer:- *B*

Explanation:-
'serendipity' means 'pleasant happening by chance'.

QNo:- 146 ,Correct Answer:- *A*

Explanation:-
'vitriolic' means 'acidic' or 'bitter'.

QNo:- 147 ,Correct Answer:- *A*

Explanation:-
'sprightly' means 'lively' or 'cheerful'

QNo:- 148 ,Correct Answer:- *D*

Explanation:-
Dapper is something stylish or dainty.

QNo:- 149 ,Correct Answer:- *C*

Explanation:-
Tense error. 'Extended' should correspond with 'centuries' and departed. Hence, [3]

QNo:- 150 ,Correct Answer:- *B*

Explanation:-
.....and me, as after the verbs ,the objective form of the pronoun is used and not the subjective form of the the pronoun. Here the verb is 'applauded' and 'me' is the object form of the pronoun.

QNo:- 151 ,Correct Answer:- *D*

Explanation:-
'Friends' – a plural subject will take a plural verb, 'are'. Hence, [4]

QNo:- 152 ,Correct Answer:- *D*

Explanation:-
Use of 'because' with 'reason' is incorrect. Hence, [4]

QNo:- 153 ,Correct Answer:- *D*

Explanation:-
.....went on a strike. Hence, [4]

QNo:- 154 ,Correct Answer:- *A*

Explanation:-
'A' is the opening statement and 'B' follows it. DC is a clear link. Hence,[1]

QNo:- 155 ,Correct Answer:- *B*

Explanation:-
'D' is the introductory sentence setting pace of the passage. 'B' should be followed by 'C'- a noun-pronoun link (politicians - they). Hence, [2]

QNo:- 156 ,Correct Answer:- *C*

Explanation:-
'D' is obviously the opening statement as it introduces the idea of 'burning of he massive star'. After this C will come as it firther explains the process being 'spectacular'. 'such' in B refers to massive stars in C.Finally A will conclude the situation explaining the after efects of such 'massive explosions'.

QNo:- 157 ,Correct Answer:- *C*

Explanation:-
'D' is the opening statement. E follows D-'two umpires' in D should be followed by 'one stands....' Hence [3].

QNo:- 158 ,Correct Answer:- *B*

Explanation:-
Options 3 and 4 do not fit in structurally whereas option 1 is too general. Option 2 aptly sums up the information. Hence [2].

QNo:- 159 ,Correct Answer:- *C*

Explanation:-
The conjunction 'unless' must be followed by the principal clause. Hence, [3].

QNo:- 160 ,Correct Answer:- *C*

Explanation:-
Custodians will always save and enhance something. Hence, [3].

QNo:- 161 ,Correct Answer:- *B*

Explanation:-

QNo:- 162 ,Correct Answer:- *C*

Explanation:-

QNo:- 163 ,Correct Answer:- *B*

Explanation:-

QNo:- 164 ,Correct Answer:- *A*

Explanation:-

QNo:- 165 ,Correct Answer:- *A*

Explanation:-

QNo:- 166 ,Correct Answer:- *A*

Explanation:-

QNo:- 167 ,Correct Answer:- *B*

Explanation:-

QNo:- 168 ,Correct Answer:- *D*

Explanation:-

QNo:- 169 ,Correct Answer:- *B*

Explanation:-

QNo:- 170 ,Correct Answer:- *C*

Explanation:-

QNo:- 171 ,Correct Answer:- *A*

Explanation:-

QNo:- 172 ,Correct Answer:- *B*

Explanation:-

QNo:- 173 ,Correct Answer:- *D*

Explanation:-

QNo:- 174 ,Correct Answer:- *A*

Explanation:-

QNo:- 175 ,Correct Answer:- *B*

Explanation:-

QNo:- 176 ,Correct Answer:- *A*

Explanation:-

QNo:- 177 ,Correct Answer:- *B*

Explanation:-

QNo:- 178 ,Correct Answer:- *A*

Explanation:-

QNo:- 179 ,Correct Answer:- *D*

Explanation:-

QNo:- 180 ,Correct Answer:- *D*

Explanation:-

QNo:- 181 ,Correct Answer:- *B*

Explanation:-

QNo:- 182 ,Correct Answer:- *D*

Explanation:-

QNo:- 183 ,Correct Answer:- *B*

Explanation:-

QNo:- 184 ,Correct Answer:- *D*

Explanation:-

QNo:- 185 ,Correct Answer:- *B*

Explanation:-

QNo:- 186 ,Correct Answer:- *C*

Explanation:-

QNo:- 187 ,Correct Answer:- *D*

Explanation:-

QNo:- 188 ,Correct Answer:- *D*

Explanation:-

QNo:- 189 ,Correct Answer:- *D*

Explanation:-

QNo:- 190 ,Correct Answer:- *D*

Explanation:-

QNo:- 191 ,Correct Answer:- *D*

Explanation:-

QNo:- 192 ,Correct Answer:- *B*

Explanation:-

QNo:- 193 ,Correct Answer:- *D*

Explanation:-

QNo:- 194 ,Correct Answer:- *D*

Explanation:-

QNo:- 195 ,Correct Answer:- *B*

Explanation:-

QNo:- 196 ,Correct Answer:- *C*

Explanation:-

QNo:- 197 ,Correct Answer:- *A*

Explanation:-

QNo:- 198 ,Correct Answer:- *C*

Explanation:-

QNo:- 199 ,Correct Answer:- *B*

Explanation:-

QNo:- 200 ,Correct Answer:- *D*

Explanation:-