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**M.B.A. (IDE) ENTRANCE EXAMINATION, February 2012**

REGISTER No. :	CENTRE :
NAME :	
SIGNATURE :	

1. Please write your Register Number, Name, Centre and Answer Sheet No. in the space provided in the Question Booklet.
2. Please do not open the Question Booklet till you are asked to do so.
3. This test has **150** questions. These questions will have to be answered in **2 hours**.
4. Please make sure that your Question Booklet contains all the **150** questions. In case your Question Booklet is defective, please get it exchanged with a non-defective booklet from the Invigilator.
5. For each question in this test, there are several suggested answers, given against **(A), (B), (C)** and **(D), (E)** out of which, only one response is the **MOST APPROPRIATE**. Your task is to find out the most appropriate response and indicate this on the answer sheet.
6. Do not mark two answers to any questions. If more than one answer is given for any question, it will be counted as wrong.
7. **SCORING** : Each right answer carries : **1 Mark**.
8. Please do your rough work in the pages meant for Rough work attached to the Question Booklet. Scrap paper is not permitted.
9. This Question Booklet along with the Answer Sheet should be handed over to the Invigilator at the end of the test. Any candidate who does not return the Question Booklet and /Answer Sheet will be disqualified.
10. No calculators, books, slide-rulers, foot-rulers, note-books or written notes, etc., will be allowed inside the examination hall.
11. You should follow the instructions given by the Test Administrators and by Invigilators at the examination hall. If you violate the instructions you will be disqualified.
12. Candidates found not eligible at any stage shall be debarred from the test.
13. Any candidate found copying or receiving or giving assistance in the examination shall be debarred from the test.

P.T.O.



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M.B.A. (IDE) Entrance Examination, February 2012

Time : 2 Hours

Max. Marks : 150

1. Reasoning

1. Examine the following relationships among members of a family of six persons A, B, C, D, E and F.
- 1) The number of males equals that of females.
  - 2) A and E are sons of F
  - 3) D is the mother of two, one boy and one girl
  - 4) B is the son of A
  - 5) There is only one married couple in the family at present.

Which one of the following inferences can be drawn from the above ?

- A) A, B and C are all females
  - B) A is the husband of D
  - C) E and F are children of D
  - D) D is the granddaughter of F
2. In a certain code, MARCH is written as OCTEJ, how is RETURN written in that code ?
- |           |           |
|-----------|-----------|
| A) TFLVSM | B) QGSTQM |
| C) TGVWTP | D) TGRVSO |
3. A, B, C, D, E and F not necessarily in that order are sitting in six chairs regularly placed around a round table. It is observed that
- 1) is between D and F
  - 2) is opposite D
  - 3) and E are not on neighbouring chairs
- Which one of the following must be true ?
- |                           |                           |
|---------------------------|---------------------------|
| A) A is opposite B        | B) D is opposite E        |
| C) C and B are neighbours | D) B and E are neighbours |



4. A man standing due South of a spire finds the angular elevation of its summit to be  $45^\circ$ . If he then walks to a point 15 meters due further South and finds the angle of elevation to be  $30^\circ$ , then the height of the spire, approximately, is
- A) 20 m                      B) 25 m                      C) 28 m                      D) 30 m

5. **Assertion (A)** : Increasing yields of crops in areas of dry farming is the major objective of agricultural planning in India.

**Reason (R)** : These regions suffer from frequent droughts.

- A) Both A and R are true and R explains A  
 B) Both A and R are true but R does not explain A  
 C) A is true but R is false  
 D) R is true but A is false
6. A sphere of radius 6 cm is cut by two parallel planes on opposite sides of the centre at distances 4 cm and 1 cm from the centre respectively. The convex surface of the zone between the two parallel planes is
- A)  $62\pi$                       B)  $60\pi$                       C)  $55\pi$                       D)  $50\pi$
7. F = Food, C = Clothes, R = Rent, E = Entertainment, M = Miscellaneous, from the given figures state which of the following statement/s, is/are true.



Family A



Family B

- A) Family A spends more on entertainment and rent than family B.  
 B) Family B spends half of its income on clothes and miscellaneous.  
 C) Food and clothing consume half of the income of both families.
- A) A and B are true                      B) B and C are true  
 C) Only C is true                          D) None of these is true



8. In a code languages EARTH is written as CYPRF then what will the code word MACYL refer to ?

- A) Birth                      B) Orbit                      C) Ocean                      D) Order

**Questions 9 and 10 are based on the following :**

In a group of six office goers K, L, M, N, O, P; K, M and O possess cars, M, L, O and P possess two wheelers, N and P take lift in car of K and O, M and L ride on two wheelers to their office. Based on this information state,

9. Who possess/es both vehicles

- A) Only O                      B) Only K  
C) M and O both                      D) None of these

10. Who do/does, not possess any vehicle ?

- A) L only                      B) N only  
C) N and L both                      D) None of these

**Questions 11 and 12 are based on the following :**

In a group of six playmates Richard is physically stronger than Adam and Adolf but weaker than Charles. Charles is stronger than Edward, Adolf is stronger than Adam but weaker than Edward, who is weaker than Harry. If Harry is as strong as Richard then

11. Who among these is the weakest ?

- A) Adam                      B) Adolf                      C) Edward                      D) Harry

12. Who is the strongest ?

- A) Richard                      B) Charles                      C) Harry                      D) Adolf

13. A rectangular water tank measures 15 m x 6 m at top and is 10 m deep. It is full of water. If water is drawn out lowering the level by 1 meter, how much of water has been drawn out ?

- A) 90,000 litres                      B) 45,000 litres  
C) 4,500 litres                      D) 900 litres

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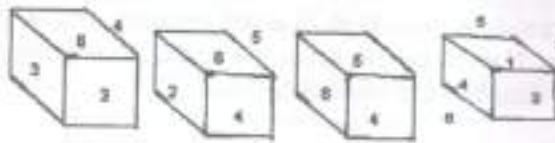


14. If  $X = -2$ , then

$X^3 - X^2 - X - 1$  is equal to

- A) 1                      B) -3                      C) -11                      D) -15

15. What is the number opposite 3 in the following figure ?



- A) 1                      B) 4  
C) 5                      D) Data insufficient

16. If  $\frac{12}{4} = x$ , what is the value of  $4x + 2$  ?

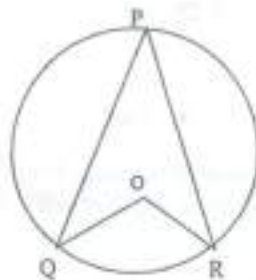
- A) 2                      B) 3                      C) 4                      D) 14

17. In an open economy, the national income (Y) of the economy is

(C, I, G, X, M stand for consumption, investment, Govt. Expenditure, total exports and total imports respectively).

- A)  $Y = C + I + G + X$                       B)  $Y = C + I + G - X + M$   
C)  $Y = C + I + G + (X - M)$                       D)  $Y = C + I - G + (X - M)$

18. In the given  $\angle OQP = 30^\circ$  and  $\angle ORP = 20^\circ$ ,  $\angle QOR$  is equal to

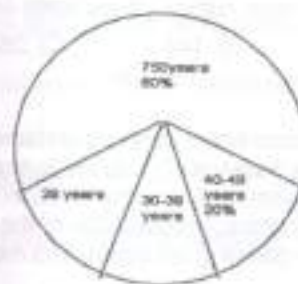


- A)  $100^\circ$                       B)  $120^\circ$                       C)  $130^\circ$                       D)  $140^\circ$





19. The distribution of 1,00,000 tourists who visited India during a particular year is shown in the given charts, based on this, the number of Japanese tourists below the age of 39 who visited India in the year concerned is



- A) 10,000      B) 8,000      C) 6,000      D) 4,000
20. If  $\frac{1}{3}$  of a number is 3 more than  $\frac{1}{4}$  of the number, then what is the number ?  
A) 18      B) 24      C) 30      D) 36      E) 48
21. If  $\frac{3}{5}$  of a number is 4 more than  $\frac{1}{2}$  of the number, then what is the number ?  
A) 20      B) 28      C) 35      D) 40      E) 56
22. When both 16 and 9 are divided by  $n$ , the remainder is 2. What is  $n$  ?  
A) 3      B) 4      C) 7      D) 6
23. After filling the car's fuel tank, a driver drove from P to Q and then to R. She used  $\frac{2}{5}$  of the fuel driving from P to Q. If she used another 7 gallons to drive from Q to R and still had  $\frac{1}{4}$  of a tank left, how many gallons does the tank hold ?  
A) 12      B) 18      C) 20      D) 21      E) 35



24. A school meeting was attended only by sophomores, juniors, and seniors.  $\frac{5}{12}$  of those who attended were juniors, and  $\frac{1}{3}$  were seniors. If 36 sophomores attended, what was the total number of students who attended the meeting ?
- A) 108      B) 144      C) 252      D) 288      E) 300

**Directions :**

The following items consists of two statements, one labeled as 'Assertion A' and the other labeled as 'Reason R'. You are to examine these two statements carefully and decide if the Assertion 'A' and the Reason 'R' are individually true and if so, whether the Reason is a correct explanation of the Assertion. Select your answers to these items using the codes given below and mark your answer sheet accordingly.

**Codes :**

- A) Both A and R are true and R is the correct explanation of A  
B) Both A and R are true but R is a NOT correct explanation of A  
C) A is true but R is false  
D) A is false but R is true
25. **Assertion (A) :** A man standing on a completely frictionless surface can propel himself by whistling.  
**Reason (R) :** If no external force acts on a system, its momentum cannot change.
26. **Assertion (A) :** The Aham and Puram poems of the Padinen Kilukanakku group formed a continuation of the Sangam composition.  
**Reason (R) :** They were included under Post-Sangam works as against the Sangam works paper.
27. **Assertion (A) :** In the Australia cattle rearing is done more for meat than for milk.  
**Reason (R) :** Australians are traditionally non vegetarians.
28. **Assertion (A) :** Lord Linlithgo described the August Movement of 1942 as the most serious revolt after the Sepoy mutiny.  
**Reason (R) :** Peasants joined the movement in large number in some places.



29. **Assertion (A)** : In human beings, the females play a major role in determining the sex of the offspring.

**Reason (R)** : Women have two 'X' chromosomes.

30. **Assertion (A)** : Large cold storage plants use ammonia as refrigerant while domestic refrigerators use chlorofluorocarbons.

**Reason (R)** : Ammonia can be liquefied at ambient temperatures at low pressures.

## 2. English

This is made up of sentence correction, critical reasoning and reading comprehension questions.

**Sentence Correction Directions** : In sentence corrections, some part of the sentence or the entire sentence is underlined. Beneath each sentence you will find five ways of phrasing the underlined part. The first of these repeats the original; the other four are different. If you think the original is the best of these answer choices, choose answer A; otherwise, choose the best version and select the corresponding letter.

**Reading Comprehension Directions** : After reading the passage, choose the best answer to each question. Answer all questions following a passage on the basis of what is stated or implied in that passage.

**Critical Reasoning Directions** : Select the best of the answer choices given.

31. As its performance has risen on all stock indexes, the bio-tech starts-up has branched out into new markets to look for opportunities they would previously have had to ignore.
- A) They would previously have had to ignore
  - B) They would have had to ignore previously
  - C) That previously they would have had to ignore
  - D) It would previously have had to ignore



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32. Scientist wishing to understand the kinetic movements of ancient dinosaurs are today studying the movements of modern day birds, which many scientists believe are descended from dinosaurs. A flaw in this strategy is that birds, although once genetically linked to dinosaurs, have evolved so far that any comparison is effectively meaningless.

Which of the following, if true, would most weaken the criticism made above of the scientists strategy ?

- A) Birds and dinosaurs have a number of important features in common that exist no other living species
  - B) Birds are separated from dinosaurs by 65 million years of evolution
  - C) Our theories of dinosaur movements have recently undergone a radical reappraisal
  - D) The study of kinetic movement is a relatively new discipline.
33. The factory in China has two options to improve efficiency; adding robotic assembly lines, and subcontracting out certain small production goals that could be done more efficiently else where. Adding robotic assembly lines will improve efficiency more than subcontracting some small production goals. Therefore, by adding robotic assembly lines, the factory will be doing the most that can be done to improve efficiency.

Which of the following is an assumption on which the argument depends ?

- A) Adding robotic assembly lines will be more expensive than subcontracting some small production goals.
  - B) The factory has a choice of robotic assembly lines, some of which might be better suited to this factory than others.
  - C) The factory may or may not decide to choose either alternative.
  - D) Efficiency cannot be improved more by using both methods together than by adding robotic assembly lines alone.
34. Just as the early NASA space explorers attempted on each flight to push the frontiers of our knowledge, so too are the new private consortium space explorers seeking to add to man's general understanding of the cosmos.
- A) Just as the early NASA space explores attempted on each flight to push the frontiers of our knowledge, so too
  - B) The early NASA space explorers attempted on each flight to push the frontiers of our knowledge, and in the same way
  - C) Like the case of the early NASA space explorers who attempted on each flight to push the frontiers our knowledge, so too
  - D) As in the early NASA space explorers attempts on each flight to push the frontiers of our knowledge, so too



35. A proposal for a new building fire safety code requires that fire-retardant insulation no longer be sprayed on steel girders in the factory, but be sprayed on once the girders have arrived at the building site. This will eliminate the dislodging of the insulation in transit, and reduce fatalities in catastrophic fires by an estimated 20%.

Which of the following, if true, represents the strongest challenge to the new proposal?

- A) The fire-retardant insulation will also be required to be one inch thicker than in the past
  - B) Studies have shown that most dislodgement of insulation occurs after the girders arrive on site
  - C) Catastrophic fires represent only 4% of the fires reported nationally
  - D) The proposed safety code will add considerably to the cost of new construction
36. An attempt to ratify the Equal Rights Amendment, begun almost two decades ago, has been unsuccessful despite efforts by many important groups, including the National Organization for women.
- A) To ratify the Equal Rights Amendment, begun almost two decades ago
  - B) Begun almost two decades ago, for ratifying the Equal Rights Amendment
  - C) Begun for ratifying the Equal Rights Amendment almost two decades ago.
  - D) At ratifying the Equal Rights Amendment, begun almost two decades ago

**Directions :** Each sentence in this part has one or two missing elements, as indicated by a series of dashes. Following the sentence, you will see five lettered words or set of words. Choose the word or set of words that best fits the meaning of the sentence as a whole.

37. Although leprosy is not a highly contagious disease, those who have contracted it have always been pariahs and \_\_\_\_\_ by others.

- A) ostracized
- B) accepted
- C) sheltered
- D) admonished

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38. Although the novel was generally boring and awkwardly written, there were \_\_\_\_\_ passages of power and lyricism which hinted at the author's \_\_\_\_\_
- A) occasional, potential
  - B) frequent, malevolence
  - C) static, style
  - D) ill-conceived, superficiality
39. Portraits painted in Colonial America are quite charming but \_\_\_\_\_ and demonstrate the isolation of the American painter; they show little or no \_\_\_\_\_ of the development of painting in Europe.
- A) grotesque, concern
  - B) frivolous, affirmation
  - C) deliberate, domination
  - D) Primitive, knowledge
40. Although the manager of the corporation was wrong, his stubborn refusal to \_\_\_\_\_ or even to compromise \_\_\_\_\_ an already tense situation.
- A) arbitrate, thwarted
  - B) capitulate, exacerbated
  - C) censure, rectified
  - D) mandate, violated
41. The design of the building was magnificent, but its classical lines seemed almost \_\_\_\_\_ and out of place in the business district which was \_\_\_\_\_ ultramodern steel glass and glass skyscrapers.
- A) garish, beleaguered by
  - B) anachronistic, replete with
  - C) untoward, bereft of
  - D) grotesque, enhanced by
42. Animal behaviorists theorize that dogs are more \_\_\_\_\_ than cats because they are pack animals; whereas cats, solitary hunters, are more independent and \_\_\_\_\_ and therefore less likely to try to please their owners.
- |                        |                           |
|------------------------|---------------------------|
| A) Precocious, complex | B) Aggressive, obsequious |
| C) Tractable, obdurate | D) Intelligent, resilient |



43. The parks department claims there is a \_\_\_\_\_ of wildlife in the New York city area, and that species which have not lived in the area for most of the century are once again being sighted.
- A) Resurgence  
B) Paucity  
C) Superstructure  
D) Pretotype

**Directions :** Each of the following items consists of a related pair of words or phrases presented in capital letters, followed by five lettered pairs of words or phrases presented in lower case letters. For each question, choose the lettered pair that expresses a relationship that is most nearly like that expressed in the capitalized pair.

44. RUTHLESS : COMPASSION ::  
A) verbose : conversation  
B) mature : offspring  
C) animated : interest  
D) lethargic : energy
45. LEOPARD : CAT  
A) zebra : zoo  
B) hawk : prey  
C) parrot : jungle  
D) chameleon : lizard
46. ANGER : RABID ::  
A) hunger : ravenous  
B) concern : careless  
C) modernity : contemporary  
D) petulance : mournful
47. BLAMEWORTHY : REPROACH ::  
A) recalcitrant : praise  
B) humorous : approval  
C) sympathetic : rejection  
D) meritorious : reward



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48. PEDESTRIAN ; ORIGINALITY ::  
A) monotonous : compulsion  
B) ethereal : mysticism  
C) reclusive : misanthropy  
D) indulgent : forbearance
49. PRESTIDIGITATION : DECEPTION ::  
A) adulation : enemy  
B) legerdemain : illusion  
C) solemnity : funeral  
D) inexorability : chronology
50. SOLICITOUS : ATTENTION ::  
A) rebellious : compliance  
B) tepid : maturity  
C) corrosive : chemical  
D) ingenuous : naiveté
51. INTERESTED ; RAPT ::  
A) amenable : enthusiastic  
B) corrupt : fulfilled  
C) disinclined : concerned  
D) quarrelsome : intemperate
52. RAPACIOUS : GREED ::  
A) zealous : passion  
B) ferocious : timidity  
C) contemptuous : reticence  
D) precocious : administration





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53. STOCKING : LEG ::

- A) Waistband : skirt
- B) Ankle : foot
- C) Button : lapel
- D) Glove : hand

54. PARK : RECREATION ::

- A) Kitchen : cooking
- B) Fence : sitting
- C) Tree : climbing
- D) Yard : playing

55. OUNCE : WEIGHT ::

- A) Acre : area
- B) Scale : mass
- C) Inch : yard
- D) Menu : portion

56. CREST : WAVE ::

- A) Climax : action
- B) Elegy : memory
- C) Example : paradigms
- D) Milestone : distance

57. LOW : COW ::

- A) Gosling : goose
- B) Swarm : bee
- C) Hutch : rabbit
- D) Chirp : bird

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58. HAMLET : VILLAGE ::  
A) Street : sidewalk  
B) Convertible : car  
C) Building : skyscraper  
D) Cottage : house
59. MALLEABLE : SHAPED ::  
A) Flexible : bullied  
B) Amenable : persuaded  
C) Tolerable : handled  
D) Pliable : hardened
60. ANALGESIC : PAIN ::  
A) Anesthetic : surgery  
B) Palliative : violence  
C) Operation : health  
D) Enthusiasm : anger
61. NOVICE : EXPERIENCE ::  
A) Questioner : knowledge  
B) Invader : bravery  
C) Narrator : objectivity  
D) Rube : sophistication
62. GRISLY : DISGUST ::  
A) Happy : grief  
B) Endearing : affection  
C) Redolent : joy  
D) Boring : interest



63. DIATRIBER : ABUSIVE ::

- A) Rant : condemnatory
- B) Doctrine : orthodox
- C) Eulogy : laudatory
- D) Refrain : musical

64. SECRETE : FIND ::

- A) Muffle : hear
- B) Cover : open
- C) Exude : ignore
- D) Smile : sadden

65. INDELIBLE : PERMANENCE ::

- A) United : individuality
- B) Qualified : employment
- C) Unavoidable : toleration
- D) Flimsy : tenuousness

**Directions :** Choose the answer choice that best completes the sentence :

66. "Pick one topic and \_\_\_\_\_ it throughout your term paper".

- A) Stick around
- B) Step on one's toes in
- C) Stick to
- D) Paste it

67. "I'm in a real rush now, but \_\_\_\_\_ later and I'll have more time to talk".

- A) stop by
- B) drop out
- C) turn over
- D) turn off











83. Gilt-edged market means
- A) Bullion market
  - B) Market of Government securities
  - C) Market of guns
  - D) Market of pure metals
84. Which one of the following dynasties was ruling over North India at the time of Alexander's invasion ?
- A) Nanda
  - B) Maurya
  - C) Sunga
  - D) Kanva
85. Which one of the following materials is very hard and very ductile ?
- A) Carborundum
  - B) Tungsten
  - C) Cast iron
  - D) Nichrome
86. Match List I with List II and select the correct answer using the codes given below the lists :

List I (Minerals)	List II (Major producer)
a) Mineral Oil	1) Zambia
b) Copper	2) Guyana
c) Manganese	3) Venezuela
d) Bauxite	4) Gabon

Codes :

- A) a    b    c    d  
      3    1    4    2
- B) a    b    c    d  
      3    1    2    4
- C) a    b    c    d  
      1    3    2    4
- D) a    b    c    d  
      1    3    4    2

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87. Which one of the following does a TV remote control unit use to operate a TV set ?
- A) Light waves  
B) Sound waves  
C) Micro waves  
D) Radio waves
88. Consider the following statements :  
The Indian rupee is fully convertible
- 1) in respect of Current Account of Balance of Payment
  - 2) in respect of Capital Account of Balance Payment
  - 3) into gold
- Which of these statements is/are correct ?
- A) 1 alone  
B) 3 alone  
C) 1 and 2  
D) 1, 2 and 3
89. Who among the following streamlined the Maratha administration after Sambhaji ?
- A) Raja Ram  
B) Balaji Vishwanath  
C) Ganga Bai  
D) Nanaji Deshmukh
90. Hybridoma technology is a new biotechnological approach for commercial production of
- A) monoclonal antibodies  
B) interferon  
C) antibiotics  
D) alcohol
91. Which one of the following is known as the "Coffee port" of the world ?
- A) Sao Paulo  
B) Santos  
C) Rio de Janeiro  
D) Buenos Aires
92. Resurgent India Bonds were issued in US Dollar, Pound, Sterling and
- A) Japanese Yen  
B) Deutsche Mark  
C) Euro  
D) French Franc



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93. The sensation of fatigue in the muscles after prolonged strenuous physical work is caused by
- A) A decrease in the supply of oxygen
  - B) Minor wear and tear of muscle fibers
  - C) The depletion of glucose
  - D) The accumulation of lactic acid
94. Consider the following events
- 1) Reign of Krishna Deva Raya of Vijayanagara
  - 2) Construction of Qutub Minar
  - 3) Arrival of Portuguese in India
  - 4) Death of Firuz Tughlaq
- The correct chronological sequence of these events is :
- A) 2, 4, 3, 1      B) 2, 4, 1, 3      C) 4, 2, 1, 3      D) 4, 2, 3, 1
95. Fundamental Duties of Indian Citizens
- A) Formed part of the original Constitution
  - B) Were added to the Constitution by the 42<sup>nd</sup> Amendment
  - C) Were added to the Constitution by the 44<sup>th</sup> Amendment
  - D) Were added to the Constitution in the wake of Supreme Court judgment in *Keshavananda Bharati* case
96. What is elastic rebound theory concerned with ?
- A) Mountain Building
  - B) Process of gradation
  - C) Earthquakes
  - D) Tidal phenomena
97. The National Mesosphere, Stratosphere, Troposphere (MST) Reader Facility is located at Gadanki in
- A) Karnataka
  - B) Gujarat
  - C) Andhra Pradesh
  - D) Orissa

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98. The first use metal coins in India, the so called punch marked coins can be associated with
- A) The Harappan period                      B) The Vedic period  
C) The post Vedic period                    D) The Mauryan period
99. Match the following
- |           |  |
|-----------|--|
| a) NABARD | 1) Financial assistance for warehousing      |
| b) NCDC   | 2) Refinancing agricultural credit           |
| c) SCARDB | 3) Inter-state sale of agricultural products |
| d) NAFED  | 4) Land development                          |
- |    | a | b | c | d |
|----|---|---|---|---|
| A) | 2 | 1 | 4 | 3 |
| B) | 1 | 2 | 3 | 4 |
| C) | 4 | 1 | 2 | 3 |
| D) | 3 | 2 | 1 | 4 |
100. The Kundankulam Nuclear Power Station is set up in Tamil Nadu in collaboration with
- A) France                      B) Germany                      C) Russia                      D) Italy
101. The substance that is not colloidal in nature is
- A) blood                      B) milk  
C) smoke                      D) gripe water
102. Aggregate Measure of Support (AMS) in the context of WTO refers to
- A) The minimum support price guaranteed to the farmers  
B) The quantum of subsidy given to the agricultural sector  
C) The issue price of paddy and wheat  
D) Insurance cover for crops





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103. Some of the mineral elements required in extremely small quantities (traces) are called microelements. Which of the following are such elements ?
- A) Copper , Zinc, Magnesium, Iron and Sulfur
  - B) Manganese, Zinc, Iron, Boron and Calcium
  - C) Zinc, Copper, Manganese, Molybdenum and Boron
  - D) Molybdenum, Boron, Zinc, Magnesium and Calcium
104. Yakshagana is a folk dance drama of
- A) Maharashtra
  - B) Karnataka
  - C) Gujarat
  - D) W. Bengal
105. Papeti is the festival of
- A) Sikhs
  - B) Jains
  - C) Buddhists
  - D) Parsis
106. Which of the following is not one of the objectives of India's food policy ?
- A) To avert famine by maintaining buffer stock
  - B) To keep the cost of living index of employees from rising
  - C) To ensure remunerative prices to farmers
  - D) To maintain general price level
107. Kyat is currency of
- A) Israel
  - B) Myanmar
  - C) Malaysia
  - D) Thailand
108. Who was the first Chairman of the Planning Commission ?
- A) Dr. Rajendra Prasad
  - B) Jawaharlal Nehru
  - C) Gulzari Lal Nanda
  - D) G.B. Pant

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109. The structural underpinnings to Hindu Philosophy were provided by three systems of Vedanta; the main component of each one of them was born in South India. Arrange them chronologically

- A. Ramanuja
- B. Madhva
- C. Shankara

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

110. Diet is the Parliament of

- A) Israel      B) Sweden      C) Germany      D) Japan

#### 4. Quantitative Ability

111. A certain company has 120 employees. If 24 of the employees are in the union, what percent of the employees are not in the union?

- A) 12%      B) 24%      C) 48%      D) 80%

112. In 1960, a certain tree was 12 meter tall. If the tree measured 15 meters in 1985, by what percent did its height increase?

- A) 3%      B) 25%      C) 40%      D) 80%

113. At 9:00 a.m. on Monday the price of gold was \$ 450 per ounce. If the price of gold at 3:00 that same day was \$ 441 per ounce, what was the percent decrease in the price of gold during the day?

- A) 98%      B) 9.8%      C) 9%      D) 2%

114. In 1940, the price of a certain item was \$ 0.20. If the same item cost \$1.00 in 1987, what was the percent increase in the price of the item?

- A) 20%      B) 80%      C) 120%      D) 400%

115. In a certain school, 40 percent of the students are boys. If there are 80 boys in the school, what is the total number of students in the school?

- A) 32      B) 50      C) 120      D) 200



116. The price of item increased by 25 percent. If the price of the item after the increase is \$ 2.00, what is the original price ?  
A) \$ 1.50      B) \$ 1.60      C) \$ 1.75      D) \$ 2.50
117. In a certain box of candy, the ratio of light chocolates to dark chocolates is 4:5. If the box contains 36 candies, how many of the candies are dark chocolates ?  
A) 9      B) 18      C) 20      D) 24
118. In a certain school, the ratio of Seniors to Juniors is 5:4, and the ratio of Senior to Sophomores is 6:5. What is the ratio of Sophomores to Juniors ?  
A) 2 : 3      B) 25 : 24      C) 1      D) 24 : 25
119. In a certain library, the ratio of fiction to nonfiction books is 3:5. If the library contains a total of 8,000 books, how many of the books are nonfiction ?  
A) 2,400      B) 3,000      C) 3,600      D) 5,000
120. In a certain game, 3 nurbs are equal to 2 zimps, and 6 clabs are equal to 1 zimp. 4 clabs are equal to how many nurbs ?  
A) 1      B) 2      C) 3      D) 4
121. A \$ 1,000 bonus is to be divided among three people so that Jane receives twice as much as Robert, who receives  $\frac{1}{5}$  as much as Wendy. How much money should Wendy receive ?  
A) \$ 100      B) \$ 125      C) \$ 250      D) \$ 625
122. A roll of metal ribbon that weighs 12 pounds is cut into two pieces. One piece is 75 feet long and weighs 9 pounds. What was the length, in feet, of the original roll ?  
A) 60      B) 90      C) 100      D) 120
123. A car travelling at a constant 50 miles per hour covers the same distance in one hour as a car travelling at a constant 25 miles per hour for how many hours ?  
A)  $\frac{1}{3}$       B)  $\frac{1}{2}$       C) 1      D) 2

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124. A recipe calls for three eggs and two cups of milk. If a quantity of the recipe is prepared using eight eggs, how many cups of milk should be used ?
- A) 4                      B)  $4\frac{2}{3}$                       C)  $5\frac{1}{3}$                       D)  $5\frac{1}{2}$
125. If 8 pounds of coffee cost \$ 50, how much do 12 pounds of coffee cost ?
- A) \$ 25.00                      B) \$ 62.50                      C) \$ 75.00                      D) \$ 80.00
126. Three printing presses can finish a certain job in 60 minutes. How many minutes will it take five such printing presses to do the same job ?
- A) 15                      B) 20                      C) 30                      D) 36
127. If 4 gallons of water occupy 30 cubic feet of space, how many gallons are needed to fill a tank with a capacity of 360 cubic feet ?
- A) 12                      B) 24                      C) 30                      D) 48
128. A repair shop can paint three cars every four hours. At that rate, how many hours will it take the shop to paint five cars ?
- A)  $6\frac{1}{3}$                       B)  $6\frac{2}{3}$                       C)  $7\frac{1}{3}$                       D)  $7\frac{1}{2}$
129. At a certain factory, it takes five metal fasteners to attach a muffler to a car. If a box containing 500 fasteners costs \$ 42, how much will it cost to buy the exact number of fasteners needed to attach 300 mufflers ?
- A) \$ 14                      B) \$ 36                      C) \$ 56                      D) \$ 126
130. Which of the following is equal to  $3x^3+3x^2+3x$ ?
- A)  $9x^6$                       B)  $3x^6$   
C)  $3x(x^3+x^2+x)$                       D)  $3x(x^2+x+1)$
131.  $\frac{x^2 + 2xy + y^2}{x + y} =$
- A)  $x+y$                       B)  $x - y$                       C)  $x^2+y$                       D)  $x + y^2$



132. If  $x + y = 9$ , then  $\frac{1}{3}x + \frac{1}{3}y =$
- A) 1                      B) 3                      C) 18                      D) 27
133. If  $2x + y = 5$  and  $x + y = 3$ , then  $x =$
- A) 0                      B) 1                      C) 2                      D) 4
134. If  $3m = 5$  and  $4n - 3m = 3$  then  $n =$
- A) 0                      B) 1                      C) 2                      D) 4
135. If  $(x + y)^2 = x^2 + y^2$ , then  $xy =$
- A) 0
- B) 1
- C) 2
- D) Cannot be determined from the information given
136. If  $(x + y)^2 - (x - y)^2 = 20$ , then  $xy =$
- A) 0                      B) 1                      C) 2                      D) 5
137. If  $\frac{1}{x} + \frac{1}{x} = 8$ , then  $x =$
- A)  $\frac{1}{4}$                       B)  $\frac{1}{2}$                       C) 1                      D) 2
138. If 100 identical bricks weigh  $p$  pounds, then in terms of  $p$ , 20 of these bricks weight how many pounds?
- A)  $\frac{p}{20}$                       B)  $\frac{p}{5}$                       C)  $20p$                       D)  $\frac{5}{p}$



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139. A group of 15 students took a test that was scored from 0 to 100. If exactly ten students scored 75 or more on the test, what is the lowest possible value for the average of scores of all 15 students ?
- A) 25                      B) 50                      C) 70                      D) 75
140. If a machine produces  $x$  units in  $t$  minutes and 30 seconds. What is the average operating speed in units per unit ?
- A)  $\frac{t+30}{x}$                       B)  $\frac{x}{t+30}$                       C)  $tx + \frac{1}{2x}$                       D)  $\frac{x}{t + \frac{1}{2}}$
141. If a certain rectangle has a length that is twice its width, what is the ratio of the area of the rectangle to an isosceles right triangle with hypotenuse equal to the width of the rectangle ?
- A)  $\frac{1}{8}$                       B)  $\frac{1}{4}$                       C)  $\frac{1}{2}$                       D)  $\frac{8}{1}$
142. If  $5x + 3y = 19$  and  $x$  and  $y$  are positive integers, then  $y$  could equal which of the following ?
- A) 1                      B) 2                      C) 3                      D) 4
143. If a six-side polygon has two sides of length  $x - 2y$  each and four sides of length  $2x + y$  each, what is its perimeter ?
- A)  $6x - 6y$                       B)  $6x - y$                       C)  $5x$                       D)  $10x$
144. At the first stop on her route, a driver unloaded  $\frac{2}{5}$  of the packages in her van. After she unloaded another three packages at her next stop,  $\frac{1}{2}$  of the original number of packages in the van remained. How many packages were in the van before the first delivery ?
- A) 10                      B) 18                      C) 25                      D) 30



145. If the cost of  $b$  books is  $d$  dollars, what is the cost, in dollars, of  $x$  books at the same rate ?
- A)  $xd$       B)  $\frac{dx}{b}$       C)  $\frac{bd}{x}$       D)  $\frac{bx}{d}$
146. A bag contains 4 red hammers, 10 blue hammers, and 6 yellow hammers. If three hammers are removed at random and no hammer is returned to the bag after removal, what is the probability that all three hammers will be blue ?
- A)  $\frac{1}{2}$       B)  $\frac{1}{8}$       C)  $\frac{3}{20}$       D)  $\frac{2}{19}$
147. If a rectangular swimming pool has a volume of 16,500 cubic feet, a depth of 10 feet, and a length of 75 feet, what is the width of the pool, in feet ?
- A) 22      B) 25      C) 32      D) 110
148. Nails are sold in 8-ounce and 20-ounce boxes. If 50 boxes of nails were sold and the total weight of the nails sold was less than 600 ounces, what is the greatest possible number of 20-ounce boxes that could have been sold ?
- A) 34      B) 33      C) 25      D) 16
149. If  $n$  is an even integer, which of the following must be an odd integer ?
- A)  $3n - 2$       B)  $3(n + 1)$       C)  $n - 2$       D)  $\frac{n}{3}$
150. Six cups of flour are required to make a batch of cookies. How many cups of flour are needed to make enough cookies to fill 12 cookie jars, if each cookie jar holds 1.5 batches ?
- A) 108      B) 90      C) 81      D) 78



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