PART-I

GENERAL INTELLIGENCE

Directions (1-5): In each of the following questions a series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

1. ZXV, TRP, NLJ ?
   (a) IFG  (b) HDF  (c) HGE  (d) HFD
2. BDF, HJL, NPR ?
   (a) OQS  (b) TUV  (c) TVX  (d) UVW
3. 113, 225, 449, ?, 1793
   (a) 897  (b) 789  (c) 987  (d) 978
4. 230, 246, 271, 307, ?, 192
   (a) 412  (b) 356  (c) 518  (d) 612
5. 97, 86, 99, 88, 101, ?, ?
   (a) 88, 99  (b) 90, 103  (c) 121, 108  (d) 114, 103
6. Select the alternative which is related to the given set.
   Given set is: (12, 20, 28)
   (a) (3, 15, 18)  (b) (18, 27, 72)  (c) (18, 30, 42)  (d) (7, 14, 28)
7. ‘X’ and her grandfather differ in their ages by 50 years. After 6 years, if the sum of their ages is 152, their present ages are
   (a) 24, 74  (b) 26, 76  (c) 45, 95  (d) 25, 75
8. A and B are brothers. E is the daughter of F. F is the wife of B. What is the relation of E to A?
   (a) sister  (b) daughter  (c) niece  (d) sister-in-law
9. Arun ranks 17th in class of 31 students. What is the rank from the last?
   (a) 14  (b) 15  (c) 16  (d) 17
10. If the day before yesterday was Thursday, when will Sunday be?
    (a) Today  (b) Two days after today  (c) Tomorrow  (d) Day after Tomorrow
11. Raju is standing facing north. He goes 30 metres ahead and turns left and goes for 10
metros. Now he turns right and goes for 50 metres and finally turns to his right and walks. In which direction is he heading?
(a) North (b) East
(c) South (d) West

12. Vijay starts form his office and walk 4 km towards north. Then he turns right and walks 2 km, then turns right and walks 6 km, then again turns right and walks 2 km. How far is he now from the starting point?
(a) 0 km (b) 6 km
(c) 12 km (d) 16 km

13. Wooden little cubes each with an edge of one inch are put together to form a solid cube with an edge of three inches. This big cube is then painted red all over the outside. When the big cube is broken-up into the original little ones, how many cubes will be without paint?
(a) 0 (b) 1
(c) 3 (d) 4

14. At a college party five girls are sitting in a row. P is to the left of M and to the right of O. R is sitting to the right of N, but to the left of O. Who is sitting in the middle?
(a) O (b) R
(c) P (d) M

15. If A = 1; AND = 19 then BAT = ?
(a) 22 (b) 23
(c) 21 (d) 20

16. In a particular way the word STAG is coded as HGZT. HORN as SLIM. Using the same coding, how can NORTH be written?
(a) NLGMI (b) MLIGS
(c) MGLIS (d) NLGIS

Directions: From the given alternatives select the word which cannot be formed using the letters of the given word.

17. TRANSPORT
(a) SPORT (b) STRAP
(c) TRUST (d) START

18. INTERNATIONAL
(a) ANNUAL (b) LAMINATION
(c) TERMINATE (d) INTERNAL

Directions (19-20): In each of the following questions one/two statements are given followed by two conclusions I and II. You have to consider the two statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions. If any, follow from the given statements.

19. Statements:
Dogs have four legs.
Tables have four legs.
Conclusions
I. Tables are dogs.
II. Dogs are tables.
(a) Only I follows
(b) Only II follows
(c) Either I or II follows
(d) Neither I nor II follows

20. Statements:
All animals are birds.
Some animals are human beings.
Conclusions:
I. Some human beings are birds.
II. Some birds are human beings.
(a) I follows
(b) II follows
21. Identify the correct response from the given premises stated according to following symbols.
If ‘–’ stands for division
‘+’ stands for multiplication.
‘÷’ stands for subtraction
‘×’ stands for addition
Which one of the equation is correct?
(a) 18 + 24 ÷ 12 × 16 = 12
(b) 16 × 14 – 24 ÷ 18 + 12 = – 24
(c) 24 – 12 + 12 ÷ 16 × 18 = 26
(d) 18 ÷ 16 + 12 × 18 ÷ 12 = 24

22. Select the correct combination of mathematical signs to replace * signs and to balance the following equation.
7 * 5 * 5 * 10
(a) + ÷ =
(b) × ÷ =
(c) × + =
(d) + × =

23. If 34 * 12 = 23, 28 * 76 = 52, 97 * 39 = 68 then what should 37 * 73 be?
(a) 32 (b) 25
(c) 86 (d) 55

(a) Grass (b) Race
(c) Hoof (d) Transport

27. UNDATED : ATEDUND : : CORRECT : ?
(a) PRECTOC (b) RECTROC
(c) ECTRORC (d) RECTCOR

28. AEHN : BGKR : DFGN : ?
(a) EHJR (b) EIJR
(c) EHkq (d) DkHQ

29. NJMP : PLOR : : RTVX : ?
(a) VTXZ (b) TVXZ
(c) TVZX (d) SVZX

30. 365 : 90 : : 623 : ?
(a) 36 (b) 45
(c) 123 (d) 63

31. 248 : 3 : : 328 : ?
(a) 786 (b) 682
(c) 784 (d) 688

32. 212 : 436 : : 560 : ?
(a) 786 (b) 682
(c) 784 (d) 688

Directions (24-32): In each of the following questions select the related letters/word/number/figure from the given alternatives.

24. DOCTOR : PATIENT : : LAWYER : ?
(a) CUSTOMER (b) CLIENT
(c) CONSUMER (d) BUYER

(a) Stalemate (b) Anger
(c) Failure (d) Anxiety

33. (a) January (b) June
(c) July (d) August

34. (a) Square (b) Sphere
(c) Rectangle (d) Circle

35. (a) Copper (b) Bronze
(c) Gold (d) Silver

36. (a) ccdfgg (b) hhkll
(c) mmnopp (d) qurtuu

37. (a) MLNO (b) KIPQ
(c) IHRS (d) GFTV
38. (a) 15  (b) 27  
    (c) 37  (d) 39
39. (a) (13, 40)  (b) (14, 42)  
    (c) (15, 46)  (d) (16, 49)
40. (a) B E H L N  (b) E J L S Z  
    (c) D K Q V Z Q  (d) A C I K T
41. (a) 119  (b) 154  
    (c) 85  (d) 51
42. a_b_abb_ab_a_bba  
    (a) bbaab  (b) babba  
    (c) baaba  (d) aabba
43. 5 4 3  
    6 5 4  
    23 14 ?  
    (a) 23  (b) 17  
    (c) 7  (d) 12
44. A solid cube is made using 64 small cubes. 
   In how many small cubes two sides are seen?  
    (a) 24  (b) 32  
    (c) 40  (d) 42
45. If we substitute 1 to 24 indicating hours on 
   the dial of a clock day and night by the letters 
   of the English alphabet their order starting 
   with ‘c’ which letter will represent 16 hours?  
    (a) W  (b) P  
    (c) S  (d) R
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47. Which figure represented the relation among 
   Lawyers, Teachers and Educated?  
    (a) (b) (c) (d)
48. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given question figure?

Question Figure

Answer Figures

(a)  (b)  (c)  (d)

49. Which answer figure will complete the question figure?

Question Figure

Answer Figures

(a)  (b)  (c)  (d)

50. A square transparent sheet with a pattern is given. Figure out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the middle line shown.

Question Figure
1. (d)  2. (c)  3. (a)  4. (b)  5. (b)  6. (c)  7. (c)  8. (c)  9. (b)  10. (c)
11. (b)  12. (a)  13. (b)  14. (a)  15. (b)  16. (b)  17. (c)  18. (d)  19. (d)  20. (c)
21. (c)  22. (c)  23. (d)  24. (b)  25. (c)  26. (c)  27. (d)  28. (a)  29. (b)  30. (a)
31. (c)  32. (c)  33. (b)  34. (b)  35. (b)  36. (c)  37. (d)  38. (b)  39. (b)  40. (c)
41. (b)  42. (c)  43. (c)  44. (a)  45. (d)  46. (b)  47. (c)  48. (d)  49. (d)  50. (c)
PART-II

ENGLISH LANGUAGE

Directions (51-55): In the following question, you have one brief passage with 5 questions. Read the passage carefully and choose the best answer to each question out of the four alternatives.

Passage (Question Nos. 51 to 55)

Although Indians spend less money on allopathic medicines than people in most Asian Countries, more than 40,000 drug formulations are available here. All manufactures are required by law to provide information about their product either on the packaging or in a pamphlet inside. But, in many cases, this information is very meager and hard to understand. Many doctors, too do not tell their patients anything about the drugs they prescribe.

What should we be concerned about when we take drugs? There are two areas: (1) Side effects. Many people taking a drug will notice an undesirable reaction, usually minor. But even the mildest drugs can do harm if taken improperly, long enough or in excessive doses. And everyone responds to a drug differently. (2) Failure to follow directions. Many of us disobey prescription instructions on how much to take and when. It is easy to fall into thinking that more of the drug will speed up the healing. It is more common, however for people to stop taking a drug when they begin to feel better. This, too, can be dangerous.
What are the steps to be taken for safety? Take a drug only as recommended on the label or by the doctor. (2) If you feel ill after taking a drug, check it with a doctor. (3) Do not mix drugs. (4) Check whether any food or activities are to be avoided.

51. Which one of the following statements is true?
   (a) Indians use more than 40,000 allopathic drugs
   (b) Indians hate allopathic medicines
   (c) Other Asian countries do not have allopathic medicines
   (d) Indians cannot afford allopathic drugs

52. How are drug users to be instructed by the manufactures?
   (a) Doctors should give a manual of instruction.
   (b) The Chemist should issue and instruction manual
   (c) Information should be printed on the carton or in a pamphlet kept inside it
   (d) Patients should keep in touch with drug manufactures

53. Only one of the following sentences is right. Identify it.
   (a) All medicines produce reactions of various degrees in their users
   (b) Even mild drugs are not always safe
   (c) Medicines should be discontinued as soon as we feel better
   (d) More than the prescribed dose brings quicker recovery

54. Drug manufactures ________
   (a) do not give instructions
   (b) give all instructions necessary
   (c) give very little and unintelligible information
   (d) give information only when asked

55. Which one of the following is true?
   (a) Throw away the drug that produces side effects and try another
   (b) Drugs may be taken with all kinds of foods
   (c) Drugs do not inhibit our normal lifestyle
   (d) Drugs should be used only according to prescription

Directions (56-60): In the following questions, some of the sentences have errors and some have none. Find out which part of a sentence has an error. The number of that part is your number. If there is no error, your answer is (4) i.e. No Error.

56. The Manager put forward (1)/ a number of criterions/ (2) for the post. (3)/ No error (4).
57. The Railways have made (1)/ crossing the tracks (2)/ a punished office. (3)/ No error (4).
58. A member shall be required (1)/ to pay interest (2)/ as is fixed by the committee. (3)/ No error (4).
59. Citizens cannot afford (1)/ to take the law (2)/ out of their hands. (3)/ No error (4).
60. The relatives of the deceased (1)/ threatened (2)/ to avenge (3)/ No error (4).

Directions (61-65): In the following questions, sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four.

61. The explosion that ______ the bus killed twelve people.
   (a) wrecked
   (b) deflated
   (c) stalled
   (d) hindered
62. There was some ______ between the member’s version and the committee’s version.
   (a) discourse  (b) discrepancy
   (c) certainty  (d) recurrence

63. We have talked a lot; not let us ______ to work.
   (a) get down  (b) set off
   (c) take off  (d) sit up

64. The life-guard would not let the children ______ at the deep end of the pool.
   (a) swims  (b) swim
   (c) swam  (d) to swim

65. The audience watched the clowns ______ their act.
   (a) performs  (b) perform
   (c) performed  (d) are performing

Directions (66-70): In the following questions, out of the four alternatives, choose the one which best expresses the meaning of the given word.

66. Savour
   (a) Taste  (b) Protector
   (c) Sour  (d) Flavour

67. Rivalled
   (a) Hatred  (b) Revised
   (c) Competed  (d) Contradicted

68. Trimming
   (a) Skimming  (b) Arranging
   (c) Planning  (d) Cutting

69. Pester
   (a) Annoy  (b) Insect
   (c) Upset  (d) Paste

70. Disparity
   (a) Disseminate  (b) Difference
   (c) Discord  (d) Difficulty

Directions (71-75): In the following questions, choose the word opposite in meaning to the given word.

71. Meagre
   (a) Numerous  (b) Large
   (c) Plentiful  (d) Enormous

72. Professional
   (a) Amateur  (b) Tradesman
   (c) Labour  (d) Customer

73. Scarcity
   (a) Scanty  (b) Prosperity
   (c) Majority  (d) Plenty

74. Stale
   (a) Fresh  (b) Old
   (c) Steal  (d) Stalk

75. Vacate
   (a) Evacuate  (b) Validate
   (c) Occupy  (d) Empty

Directions (76-80): In the following questions, for alternatives are given for the idiom/phrase printed in bold in the sentence. Choose the alternatives which best expresses the meaning of the idiom/phrase.

76. The Manager ______ the accounts of the company.
   (a) to make changes in account books
   (b) to clear the doctors bill
   (c) to verify the accounts in detail
   (d) to manipulate the accounts

77. She could never ______ to her parent expectation.
   (a) reach the level
   (b) work as hard
   (c) assess the amount
   (d) increase her height
78. The little girl with her flawless performance stole the show.
   (a) stole something from the show
   (b) crept into the show
   (c) won everybody’s praise
   (d) disappeared from the show
79. The thief was on good terms with the police.
   (a) kept terms and conditions
   (b) was friendly
   (c) followed the rules
   (d) agreed with them
80. John’s offer of help was turned down by the police.
   (a) sent back   (b) twisted around
   (c) refused   (d) handed over

Directions (81-85): In the following questions, a part of the sentence is printed in bold. Below are given alternatives to the bold part at (1), (2) and (3) which may improve the sentence. Choose the correct alternative. In case no improvement is needed your answer is (4).

81. Did there bus come on time?  
   (a) their’s   (b) theirs
   (c) their   (d) No improvement
82. Mayank was working overtime for the last two weeks.
   (a) is working
   (b) is being working
   (c) has been working
   (d) No improvement
83. Every morning I get up at 4 O’clock, but today I get up at 7 O’clock.
   (a) got up
   (b) was getting up
   (c) am getting up
   (d) No improvement
84. Most children are liking ice-cream.
   (a) likes   (b) like
   (c) were liking   (d) No improvement
85. Supposing if he comes, what should I do?  
   (a) If he comes
   (b) In case he will come
   (c) In the event of his being come
   (d) No improvement

Directions (86-90): In the following questions, out of the four alternatives, choose the one which can be substituted for the given words/sentence.

86. Able to use the left hand and right hand equally well
   (a) ambivert
   (b) ambidextrous
   (c) ambivalent
   (d) ambitious
87. One who hates women
   (a) philanthropist
   (b) ascetic
   (c) misogynist
   (d) misogamist
88. A system of naming things
   (a) horticulture
   (b) miniature
   (c) genocide
   (d) nomenclature
89. A raised passageway in a building
   (a) walkway
   (b) walkout
   (c) walkabout
   (d) walkover
90. A cure for all diseases
   (a) laxative
   (b) panacea
   (c) antidote
   (d) purgative

Directions (91-100): In the following passage, some of the words have been left out. First read the passage over and try to understand what it is about. Then fill in the blanks with the help of the alternatives given.
Passage
(Question Nos. 91 to 100)

There are certainly some things in common between science and religion. Both want the (91) of mankind. Only their ways and (92) are different. Then both of them (93) to have truth as their basis. Religion (94) that the truth it (95) should be believed in with a blind (96). Science says that it should be studied, (97), tested and only then relied upon. If during (98) some new truth or new aspect of the truth (99), science is ready to accept (100). But religion is not ready for research, experiment and change in whatever has already been accepted or revealed.

91. (a) goodwill (b) goodness  
    (c) welfare (d) best

92. (a) manner (b) demonstration  
    (c) style (d) methods

93. (a) say (b) claim  
    (c) assure (d) promise

94. (a) wants (b) promotes  
    (c) shows (d) forces

95. (a) proclaims (b) announces  
    (c) creates (d) ensures

96. (a) belief (b) mind  
    (c) faith (d) trust

97. (a) touched (b) felt  
    (c) seen (d) probed

98. (a) hypothesis (b) research  
    (c) meditation (d) concentration

99. (a) emerges (b) comes  
    (c) presents (d) revealed

100. (a) these (b) this  
     (c) it (d) them
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PART-III

NUMERICAL APTITUDE

101. Three taps A, B and C together can fill an empty cistern in 10 minutes. The tap A alone can fill it in 30 minutes and the tap B alone in 40 minutes. How long will the tap C alone take to fill it?

(a) 16 minutes  
(b) 24 minutes  
(c) 32 minutes  
(d) 40 minutes

102. If 1 man or 2 women or 3 boys can complete a piece of work in 88 days, the 1 man, 1 women and 1 boy together will complete it in

(a) 36 days  
(b) 42 days  
(c) 48 days  
(d) 54 days

103. If the measures of one side and cone diagonal of a rhombus are 10 cm and 16 cm respectively, then its area in cm\(^2\) is:

(a) 60  
(b) 64  
(c) 96  
(d) 100

104. A cow is ties on the corner of a rectangular field of size 30 m × 20 m by a 14 m long rope. The area of the region, what she can graze is

(use \(\pi = \frac{22}{7}\))

(a) 350 cm\(^2\)  
(b) 196 cm\(^2\)  
(c) 154 cm\(^2\)  
(d) 22 cm\(^2\)

105. If each of the length and breadth of a rectangle is increased by 50% by, by what percent does its area increase?

(a) 125  
(b) 100  
(c) \(\frac{55}{9}\)  
(d) 50
106. A cube and a sphere have equal surface areas. The ratio of their volumes is
   (a) \( \pi : 6 \)
   (b) \( \sqrt{\pi} : \sqrt{6} \)
   (c) \( \sqrt{6} : \sqrt{\pi} \)
   (d) \( 6 : \pi \)

107. The diameters of two cylinders, whose volumes are equal, are in the ratio 3 : 2. Their height will be in the ratio
   (a) 4 : 9
   (b) 5 : 6
   (c) 5 : 8
   (d) 8 : 9

108. The single discount, which is equivalent to successive discounts of 25% and 10%, is:
   (a) 35 %
   (b) 34.5 %
   (c) 33 %
   (d) 32.5 %

109. A trader marks his goods 40% above cost price and allows a discount of 25%. The profit he makes is:
   (a) 15%
   (b) 10%
   (c) 5%
   (d) 2%

110. With a 5% discount on the cost of sugar, a buyer could purchase 2 kg more sugar for Rs. 608. Selling price of sugar is:
   (a) Rs. 15.50
   (b) Rs. 15
   (c) Rs. 16.50
   (d) Rs. 2

111. The ratio of two numbers is 3 : 4 and their LCM is 48. The sum of the two numbers is:
   (a) 32
   (b) 28
   (c) 26
   (d) 24

112. If 2A = 3B = 4C, then A : B : C is:
   (a) 2 : 3 : 4
   (b) 4 : 3 : 2
   (c) 6 : 4 : 3
   (d) 3 : 4 : 6

113. The ratio \( 4^{3.5} : 2^{5} \) is the same as
   (a) 4 : 1
   (b) 2 : 1
   (c) 1 : 2
   (d) 1 : 4

114. 12 kg of rice costing Rs. 30 per kg mixed with 8 kg of rice costing Rs. 40 per kg. The average per kg price of mixed rice is
   (a) Rs. 38
   (b) Rs. 37
   (c) Rs. 35
   (d) Rs. 34

115. The ratio of the age of a father to that of his son is 5 : 2. If the product of their ages in years is 1000, then the father’s age (in years) after 10 years will be:
   (a) 50
   (b) 60
   (c) 80
   (d) 100

116. The average of 10 numbers is calculated as 15. It is discovered later on that while calculating the average on number, namely 36, was wrongly read as 26. The correct average is
   (a) 20
   (b) 18
   (c) 16
   (d) 14

117. The average of eight successive numbers is 6.5. The average of the smallest and the greatest numbers among them will be:
   (a) 4
   (b) 6.5
   (c) 7.5
   (d) 9

118. A man covers the journey from a station A to station B at a uniform speed of 36 km/hr and returns to A with a uniform speed of 45 km/hr. His average speed for the whole journey is:
   (a) 40 km/h
   (b) 40.5 km/h
   (c) 41 km/h
   (d) 42 km/h

119. A cricket batsman had a certain average of runs for his 11 innings. In the 12th innings, he made a score of 90 runs and thereby his average of runs was decreased by 5. His average of runs after 12th innings is:
   (a) 155
   (b) 150
   (c) 145
   (d) 140
120. If the cost price of an article is 80% of its selling price, the profit per cent is:
   (a) 20%  (b) 22\frac{1}{2} %  
   (c) 24%  (d) 25%

121. Due to an increase of 20% in the price of eggs, 2 eggs less are available for Rs. 24. The present rate of egg per dozen is:
   (a) Rs. 25.00  (b) Rs. 26.20  
   (c) Rs. 27.80  (d) Rs. 28.80

122. Mahesh purchased a ratio at \frac{9}{10} of its selling price and sold it at 8% more than its original selling price. His gain per cent is:
   (a) 20%  (b) 18%  
   (c) 10%  (d) 8%

123. The percent of profit, when an articles is sold for Rs. 78, is twice than when it is sold for Rs. 69. The cost price of the article is:
   (a) Rs. 49  (b) Rs. 51  
   (c) Rs. 57  (d) Rs. 60

124. A vendor sells lemons at the rate of 5 for Rs. 14, gaining thereby 40%. For how much did he buy a dozen lemons?
   (a) Rs. 20  (b) Rs. 21  
   (c) Rs. 24  (d) Rs. 28

125. Ram saves 14% of his salary while Shyam saves 22%. If both get the same salary and Shyam saves Rs. 1540, what is the saving of Ram?
   (a) Rs. 990  (b) Rs. 980  
   (c) Rs. 890  (d) Rs. 880

126. A’s salary is 25% more than B’s salary. B’s salary is how much less than A’s salary?
   (a) 20%  (b) 24%  
   (c) 25%  (d) 27.5%

127. The radius of a circle is increased by 1%. How much does the area of the circle increase?
   (a) 1%  (b) 1.1%  
   (c) 2%  (d) 2.01%

128. For an examination it is required to get 36% of maximum marks to pass. A student got 113 marks and failed by 85 marks. The maximum marks for the examination are:
   (a) 500  (b) 550  
   (c) 565  (d) 620

129. The sum of two numbers is 36 and their H.C.F. and L.C.M are 3 and 105 respectively. The sum of the reciprocals of the two numbers will be:
   (a) 13  (b) \frac{9}{11}  
   (c) \frac{7}{35}  (d) \frac{4}{35}

130. When a number is divided by 387, the remainder obtained is 48. If the same number is divided by 43, then the remainder obtained will be:
   (a) 0  (b) 3  
   (c) 5  (d) 35

131. \frac{99999}{99} \times \frac{99}{99} is equal to:
   (a) 98999  (b) 99899  
   (c) 99989  (d) 99998

132. \frac{1}{2} \frac{1}{7} is equal to
   (a) \frac{1}{\sqrt{2}}  (b) \frac{2}{\sqrt{2}} 
   (c) \frac{1}{\sqrt{2}}  (d) \sqrt{2}
133. How many $\frac{1}{6}$ s together make $41\frac{2}{3}$?
   (a) 125  (b) 150  
   (c) 250  (d) 350

134. Which of the following numbers is the greatest of all?
   0.9, 0.9, 0.09, 0.09
   (a) 0.9  (b) 0.9  
   (c) 0.09  (d) 0.09

135. A fraction having denominator 30 and lying between $\frac{5}{8}$ and $\frac{7}{11}$ is:
   (a) $\frac{18}{30}$  (b) $\frac{19}{30}$  
   (c) $\frac{20}{30}$  (d) $\frac{21}{30}$

136. $\frac{\sqrt{7} - \sqrt{5}}{\sqrt{7} + \sqrt{5}} + \frac{\sqrt{7} + \sqrt{5}}{\sqrt{7} - \sqrt{5}}$ is equal to:
   (a) 12  (b) $6\sqrt{35}$  
   (c) 6  (d) $2\sqrt{35}$

137. The least perfect square number, which is divisible by each of the number 16, 20 and 24 is:
   (a) 1600  (b) 3600  
   (c) 6400  (d) 14400

138. If $x + \frac{9}{x} = 6$, then the value of $(x^2 + \frac{9}{x^2})$ is
   (a) 8  (b) 9  
   (c) 10  (d) 12

139. The next number of the sequence 51, 52, 56, 65, ____ is:
   (a) 75  (b) 78  
   (c) 79  (d) 81

140. The wrong number of the sequence 4, 9, 19, 39, 79, 169, 319 is
   (a) 169  (b) 79  
   (c) 39  (d) 9

141. 2 men and 3 women together of 4 men together can complete a piece of work in 20 days. 3 men and 3 women will complete the same work in:
   (a) 12 days  (b) 16 days  
   (c) 18 days  (d) 19 days

142. A train, 110m long, is running at a speed of 60 km/hr. How many seconds does it take to cross another train, 170 m long, standing on parallel track?
   (a) 15.6  (b) 16.8  
   (c) 17.2  (d) 18

143. The persons walk from place A to place B. Their speeds are in the ratio 4 : 3 : 5. The ratio of the times taken by them to reach B will be:
   (a) 10 : 15 : 13  (b) 2 : 3 : 4  
   (c) 15 : 20 : 12  (d) 16 : 18 : 15

144. At some rate per annum, the compound interest on Rs. 1500 for 2 years is Rs. 449.40. The rate of interest per annum is:
   (a) 10%  (b) 12%  
   (c) 14%  (d) 15%

145. The difference between the compound interest and simple interest of some amount of money for 2 years at 9% per annum is Rs. 129.60. The sum of money is:
   (a) Rs. 12000  (b) Rs. 12500  
   (c) Rs. 13500  (d) Rs. 16000
146. A sum of money was invested at a certain rate of simple interest for 2 years. Had it been invested at 1% higher rate, it would have fetched Rs. 24 more interest. The sum of money is:
   (a) Rs. 1200
   (b) Rs. 1050
   (c) Rs. 1000
   (d) Rs. 9600

Directions (147-150): The bar graph, given here, shows the demand and production of colour televisions of five companies of Diwali season in the year 2009. Study the graph carefully and answer the question based on the graph.

147. The ratio of the demand and production colour televisions of company E is:
   (a) 3 : 2  (b) 2 : 3  
   (c) 2 : 1  (d) 1 : 2

148. The demand of colour televisions of company B is approximately what per cent of that of company C?
   (a) 60  (b) 25  
   (c) 24  (d) 6

149. The production of colour television of company D is how many times that of company A?
   (a) 1.9  (b) 1.8  
   (c) 1.5  (d) 2.3

150. The ratio of companies having more demand than production of colour televisions to those having more production than demand is:
   (a) 2 : 3  (b) 4 : 1  
   (c) 1 : 4  (d) 3 : 2
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PART-IV

GENERAL AWARENESS

151. Which of the following animals does not have nervous system?
   (a) Leech  (b) Tapeworm
   (c) Amoeba  (d) Snail

152. Which of the following causes Malaria?
   (a) Insect  (b) Bacteria
   (c) Protozoa  (d) Virus

153. Deposition of uric acid crystals at the joint is the cause of
   (a) Arthritis  (b) Osteoporosis
   (c) Osteomalacia  (d) Rickets

154. Which of the following cytoplasmic organelles are treated as prokaryotic cells withing the eukaryotic cells?
   (a) Mitochondria  (b) Golgi bodies
   (c) Lysosomes  (d) Glyoxysomes

155. Nitrogenous food is
   (a) Carbohydrate  (b) Lipid
   (c) Protein  (d) Salts
156. The cause of loss of forest cover is
(a) Agriculture
(b) Building Industry
(c) Increasing population
(d) Tourism & pilgrimage

157. Green House Effect means
(a) Pollution in houses in tropical regions
(b) Trapping of solar energy due to atmospheric oxygen
(c) Trapping of solar energy due to atmospheric carbon dioxide
(d) Cultivation in green houses so as to check pollution

158. Which one of the following organs excretes water, fat and various catabolic wastes?
(a) Kidney  (b) Skin
(c) Spleen  (d) Salivary glands

159. Pollutant from motor car exhaust that causes mental disease is
(a) Lead    (b) NO₂
(c) SO₂     (d) Hg

160. Which nation is Mongia Port situated in?
(a) Sri Lanka  (b) Bangladesh
(c) Bhutan    (d) India

161. Which of the following schools is associated with Jawaharlal Nehru?
(a) NAVYUG School
(b) NAVODAYA School
(c) SARVODAYA
(d) None of the above

162. The total energy of revolving electron in an atom
(a) cannot be negative
(b) can have any value above zero
(c) can never be positive
(d) will always be positive

163. Conduction band electrons have more mobility than holes because they
(a) are lighter
(b) experience collision less frequently
(c) have negative charge
(d) need less energy to move them

164. The mass number of a nucleus is
(a) always less than its atomic number
(b) always more than its atomic number
(c) always equal to its atomic number
(d) sometimes more and sometimes equal to its atomic number

165. Which colour of light shows maximum deviation when passed through a prism?
(a) White  (b) Red
(c) Violet (d) Green

166. The best material for the core of a transformer is
(a) stainless steel
(b) mild steel
(c) hard steel
(d) soft iron

167. Iodine can be separated from a mixture of Iodine and Potassium Chloride by
(a) sedimentation
(b) filtration
(c) sublimation
(d) distillation

168. Identify the metal which is non toxic in nature.
(a) Chromium  (b) Gold
(c) Cadmium (d) Cobalt

169. The gas that usually causes explosions in coal mines is
(a) Hydrogen  (b) Carbon monoxide
(c) Air       (d) Methane
170. The chemical behaviour of an atom depends upon
(a) the number of protons in its nucleus
(b) the number of neutrons in the nucleus
(c) the number of electrons orbiting around the nucleus
(d) the number of nucleus in the nucleus

171. A powerful eye irritant present in smog is
(a) nitric oxide
(b) sulphur dioxide
(c) peroxyacetyl nitrate
(d) carbon dioxide

172. Who is the Governor of West Bengal?
(a) V.K. Murthy
(b) Vijay A. Kelker
(c) M.K. Narayanan
(d) V.K. Singh

173. Who among the following had got the Bharat Ratna Award before becoming the president of India?
(a) Dr. Zakir Hussain
(b) Dr. Rajendra Prasad
(c) Dr. S. Radhakrishnan
(d) V.V. Giri

174. How many persons can be nominated by the president to the Rajya Sabha from among those who have distinguished themselves in art, literature, social service etc.?
(a) 4
(b) 8
(c) 12
(d) None of the above

175. Which of the following states is set to become frontrunner in driving with supplies of BS III petrol and diesel?
(a) Kerala
(b) Delhi
(c) Karnataka
(d) Goa

176. Which of the following diseases is caused by the consumption of nitrate contaminated food and water?
(a) Minimata disease
(b) Osteoporosis
(c) Blue baby syndrome
(d) Asbestosis

177. Who is the Foreign Secretary of India who accompanied the External Affairs Minister to Pakistan in July, 2010?
(a) Anil Kakodkar
(b) Niruparma Rao
(c) Shikha Sharma
(d) None of the above

178. The winner of Ranji Trophy Cricket Championship held in January 2010 was
(a) Uttar Pradesh
(b) Mumbai
(c) Punjab Eleven
(d) Delhi Eleven

179. The largest tribal community in India is
(a) Bhils
(b) Gonds
(c) Santhals
(d) Tharus

180. A horizontal demand curve is
(a) relatively elastic
(b) perfectly inelastic
(c) perfectly elastic
(d) of unitary elasticity

181. The theory of monopolistic competition has been formulated in the United States of America by
(a) Joan Robinson
(b) Edward Chamberlin
(c) John Bates Clark
(d) Joseph Schumpeter
182. Production Function relates to:
(a) costs to outputs
(b) costs to inputs
(c) inputs to outputs
(d) wage level to profits

183. What type of products, does CACP recommend minimum support price for?
(a) Industrial products
(b) Agricultural products
(c) Pharmaceutical products
(d) None of the above

184. Under increasing returns the supply curve is
(a) positively sloped from left to right
(b) negatively sloped from left to right
(c) parallel to the quantity-axis
(d) parallel to the price-axis

185. Which is the competent body to prescribe conditions for acquisition of citizenship?
(a) Election Commission
(b) President
(c) Parliament
(d) Parliament & Assemblies

186. In which of the Parliamentary Financial Committees is the Rajya Sabha not represented?
(a) Public Account Committee
(b) Estimates Committee
(c) Committee on Public Undertakings
(d) Expenditure Committee

187. The Constitution of India assures economic justice to citizens through
(a) Fundamental Rights
(b) Fundamental duties
(c) Preamble
(d) Directive Principles of State Policy

188. Who interprets the Constitution?
(a) Legislature
(b) Executive
(c) Judiciary
(d) President

189. The members of Rajya Sabha are elected for a term of
(a) Two years
(b) Four years
(c) Six years
(d) Five years

190. Jnanpith Award is conferred to those in the field of
(a) Literature
(b) History
(c) Drama
(d) Dance

191. The first African National to become Secretary General of UNO was
(a) Kofi Annan
(b) Butros Gali
(c) Nelson Mandela
(d) Winni Mandela

192. What was Lala Lajpat Rai demonstrating against when he succumbed to police brutality?
(a) Rowlatt Act
(b) Minto-Morley Reforms
(c) Simon Commission
(d) Pitts India Act

193. That the Rig-Vedic Aryans were a pastoral people is borne out by the fact that
(a) There are many references to the cow in the Rig Veda
(b) Most of the wars were fought for the sake of cows.
(c) Gifts made to priests were usually cows and not land
(d) All of the above

194. Which among the following build the famous Khajuraho Temple?
(a) The Chandella Kings
(b) The Pala Kings
(c) Vikramaditya
(d) The Jania Monks of Central India
195. Which of the following organisations prepares topographical maps of India?
(a) Geographical Survey of India
(b) Survey of India
(c) Geological Survey of India
(d) Archaeological Survey of India

196. Which country is the largest producer of timber?
(a) United States
(b) Brazil
(c) Nigeria
(d) Sweden

197. The most important ore of lead is
(a) Galena
(b) Magnetite
(c) Pyrolusite
(d) Siderite

198. Which of the following is not a Rabi crop in India?
(a) Wheat
(b) Barley
(c) Rapeseed
(d) Jute

199. The density of population in an area is measured by the number of
(a) persons
(b) children
(c) families
(d) houses

200. Archaeopteryx had the following reptilian characters
(a) Teeth on jaw, tail, break
(b) Clawed wings, teeth on jaw, tail
(c) Clawed wings, scales, feathers
(d) Teeth on jaw, feathers, tail