

## PART - I : GENERAL INTELLIGENCE

**Directions (1-3) :** Which of the following responses will complete the analogy given in the question?

1. 20 : 11 :: 102 : ?  
 (a) 49 (b) 52  
 (c) 61 (d) 98
2. XWV : UTS :: LKJ : ?  
 (a) JKL (b) IHG  
 (c) STU (d) MNO
3. BEJM : NQRU :: DGLO : ?  
 (a) BFKL (b) PSTW  
 (c) NRVZ (d) FJKO

**Directions (4-5) :** Choose the response which is different from the rest.

4. (a) 15 (b) 21  
 (c) 24 (d) 28
5. (a) 2 : 4 (b) 4 : 8  
 (c) 6 : 18 (d) 8 : 32

**Directions (6-8) :** Select the missing number/letter from the given responses to complete the series.

6. 8, 25, 101, 506, ?  
 (a) 3036 (b) 3035  
 (c) 3037 (d) 3038
7. A, G, L, P, S, ?  
 (a) U (b) W  
 (c) X (d) Y
8. QTX, CFJ, ORV, ?  
 (a) YCH (b) ADH  
 (c) ZEH (d) AEH
9. If  $23 \times 5 = 27$  and  $13 \times 8 = 20$  then,  $29 \times 6 = ?$   
 (a) 33 (b) 34  
 (c) 36 (d) 174

10. Some equations are solved on the basis of a certain system. On the same basis, find out the correct answer from amongst the four alternatives for the unsolved equation :  
 $5 + 6 + 8 = 856$ ,  $7 + 1 + 3 = 371$ ,  $9 + 5 + 4 = ?$

- (a) 495 (b) 954  
 (c) 459 (d) 549

11. Which one of the following is correct ?

- (a)  $- + =$  (b)  $\times + =$   
 (c)  $++ =$  (d)  $+ \times =$

12. If + means division,  $\times$  means subtraction,  $-$  means multiplication and  $\times$  means addition then,

$$24 \div 6 + 2 - 1 \times 4 = ?$$

- (a) 11 (b) 60  
 (c) 6 (d) -2

13. Choose the wrong step in the following series.

$$0, 3, 9, 12, 36, 39, 42, 120, 360$$

- (a) 12 (b) 39  
 (c) 42 (d) 360

14. If HONGKONG is written as 42309230 in a certain code and DELHI is written as 85641. How to write LONDON in that code ?

- (a) 623123 (b) 623823  
 (c) 628323 (d) 623238

15. Anil is one of the brother of Daya. Daya is a son of Chandra. Vimal is the father of Chandra. How is Anil related to Vimal ?

- (a) Brother of Grandfather  
 (b) Grandson  
 (c) Son-in-law  
 (d) Brother

16. If South-East becomes North, North-East becomes West and so on. What will West become ?

- (a) North-East (b) North-West  
 (c) South-East (d) South-West

17. The number of letters skipped in between adjacent letters in a series is increased by 1. Which of the following series observes this rule ?

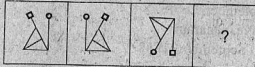
- (a) DFIMQR (b) EGJNSY  
 (c) FIMOPSV (d) ACFIMS

18. Find the missing number to complete the matrix.

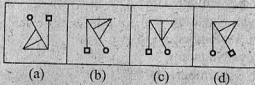
|    |    |    |
|----|----|----|
| 15 | 36 | 28 |
| 10 | 20 | 24 |
| 7  | 9  | 11 |
| 12 | 25 | ?  |

- (a) 15 (b) 7  
(c) 17 (d) 35
19. If FAITH is written as KELVI then, CLOUD is written as :
- (a) HEWRP (b) HPERW  
(c) HPRWE (d) HPWRW
20. A word given in capital letters is followed by four words. Out of these, only one cannot be formed by using the letters of the given word. Find out that word. CONSTANTINOPLE
- (a) NAPLES (b) CONSTANT  
(c) COUP (d) TIPTOE
21. Select the missing figure from the given responses to complete the series.

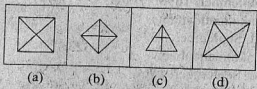
Question Figures :



Answer Figures :



22. Select the odd figure from the given responses.

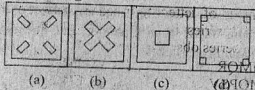


23. A piece of paper is folded and cut as shown below. From the given responses, indicate how it will appear when opened.

Question Figures :



Answer Figures :

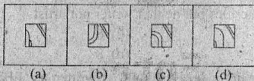


24. Which one of the answer figures shall complete the question figure ?

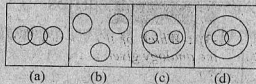
Question Figure :



Answer Figures :



25. Which one of the following figures represents the relationship among civilians, educated, people ?



26. If 'BE QUICK' is written as 'ZC OSGAI'. Then, the last letter of the third word of the sentence 'I LOVE MY COUNTRY' is coded as:

- (a) W (b) U  
(c) T (d) A

27. If  $\times$  means addition and (divide sign) means subtraction, then, the value of the following equation is:

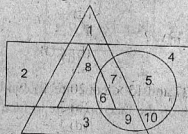
$$39 \times 23 + 21 \times 5$$

- (a) 46 (b) 36  
(c) 62 (d) 89

Directions (28-30) : In the following questions, choose the set of letters which is different from the rest.

28. (a) UHRNI (b) KLTNV  
(c) HBOKL (d) ALBY
29. (a) VTOJE (b) USNID  
(c) UPKEA (d) OMHCX
30. (a) HSIRJ (b) FTGSH  
(c) DWEVF (d) AZBYC

Directions (31-33) : Read the following figure carefully and answer the questions.



- Bigger Triangle denotes Writer.  
— Rectangle denotes Poet.  
— Smaller Triangle denotes Artist.  
— Circle denotes Critic.

31. Which of the following number represents the artist and critic writers.

- (a) 7 (b) 5 (c) 6 (d) 8

32. Which of the following number represents those artists who are not critics.

- (a) 8 (b) 7 (c) 5 (d) 1

33. Which of the following number represents those poets who are critics but neither writer nor artist.

- (a) 5 (b) 6  
(c) 7 (d) 8

34. In a certain code, 'FAVOUR' is written as 'EBUPTS'. How is 'DAGGER' written in that code?

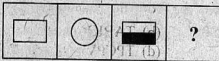
- (a) EBHHFS (b) CBFHDS  
(c) CBFHDS (d) EBFHDS

**Directions (35-37) :** Find the missing number/figure.

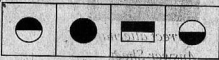
|   |    |
|---|----|
| 3 | 9  |
| ? | 81 |

- (a) 24 (b) 162  
(c) 6561 (d) 729

36. **Question Figures :**

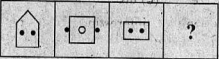


**Answer Figures :**

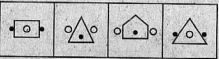


- (a) (b) (c) (d)

37. **Question Figures :**

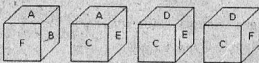


**Answer Figures :**



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

38. From the positions of a cube are shown below, Which letter will be on the face opposite to face with 'A'?



- (a) D (b) B (c) C (d) F

39. A statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

**Statement:** 'Double your money in five months.' - An advertisement.

**Assumptions:**

- I. The assurance is not genuine.  
II. People want their money to grow:  
(a) Only assumption I is implicit  
(b) Only assumption II is implicit  
(c) Either I or II is implicit  
(d) Neither I nor II is implicit

**Directions (40-41) :** The name of a town and a date is given followed by four alternatives (a), (b), (c) and (d). Of these alternatives, only one matches the town and the date given below while others have some mistake or the other. You are to choose the alternative as your answer which is EXACTLY the same as the given one.

40. Vezaya Nagaram

12th September, 1678

- (a) Vijaya Nagaram  
12th September, 1868  
(b) Vizaya Nagaram  
12th September, 1687  
(c) Vizaya Nagaram  
12th September, 1678  
(d) Vizeya Nagaram  
12th September, 1678

41. Otthakalmandabam

22nd, September, 1698

- (a) Otthakalmandapam  
22nd, September, 1698  
(b) Otthakalmandabam  
22nd, September, 1968  
(c) Othakalmandalam  
22nd, September, 1689  
(d) Otthakalmandabam  
22nd, September, 1698

42. The average age of three friends A, B, C is 20 years. The average age of A and B is 19 years. What is the age of C?

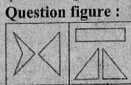
- (a) 20 years (b) 21 years  
(c) 22 years (d) 24 years

43. Arun runs faster than Elias, but not as fast as Dinesh. Dinesh runs faster than Chander, but not as fast as Bikram. Who runs fastest?

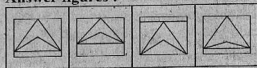
- (a) Arun (b) Bikram  
(c) Chander (d) Dinesh

44. Ramu's mother said to Ramu, "My mother has a son whose son is Achyut". How is Achyut related to Ramu ?  
 (a) Uncle (b) Cousin  
 (c) Brother (d) Nephew

45. Among the four answer figures, which one can be formed from the cut out pieces given below in the question figure ?



Answer figures :



46. Some equations are solved on the basis of some system. Using the same, solve the unsolved equation.

$$4 \times 5 \times 6 = 645 \qquad 5 \times 6 \times 7 = 756$$

$$8 \times 7 \times 9 = 987 \qquad 6 \times 7 \times 8 = ?$$

- (a) 768 (b) 867  
 (c) 876 (d) 678
47. If '+' means  $\times$ , '-' means '+', ' $\times$ ' means '+' and '+' means '-', then  $10 + 5 \times 10 \div 2 - 5$  has a value of :  
 (a) 35 (b) 45  
 (c) 30 (d) 8

$$48. \begin{array}{r} 6 \quad 8 \quad 12, \\ 12 \quad 9 \quad 4 \\ \hline 10 \quad 5 \quad ? \\ 720 \quad 360 \quad 336 \end{array}$$

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(b) 12

(d) 14

49. Mrs. Kiran starts from Gandhi Square, Kolkata, drives her car towards west 6 kms and turning to her right she drives 4 kms, then again turns the car to her right and moves 6 kms. How far is she from the starting point ?

(a) 6 kms (b) 16 kms

(c) 4 kms (d) 8 kms

Direction : Given below are letters A to Z. Under each capital letter a small letter is written which is to be used as a code for the capital letter.

|   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | B | C | D | E | F | G | H | I | J | K | L | M |
| f | o | i | l | q | y | b | m | t | v | g | e | r |

|   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| u | x | a | w | z | j | n | p | c | h | k | s | d |

With the help of the given codes (small letters) select the equivalent capital letters for the following :

50. *efsogc*  
 (a) LZIOVK (b) TABKVY  
 (c) LAYBKV (d) TPCPV

## PART - II : ENGLISH LANGUAGE

**Directions (51-56) :** In these questions, some parts of the sentences have errors and some have none. Find out which part of a sentence has an error and mark the appropriate letter (a), (b), (c). If a sentence is free from error, (d) is the Answer.

51. Bombay's slums/(a) are not any better than/(b) Calcutta./(c) No error (d)
52. Newspaper/(a) carried a report/(b) of the plane crash./(c) No error (d)
53. Twelve inches/(a) makes/(b) a foot./(c) No error (d)
54. I prefer/(a) dancing/(b) to singing./(c) No error (d)
55. Neither the USA nor the UK/(a) are the largest democracy/(b) in the twentieth century./(c) No error (d)
56. While he was on holiday last week/(a) he wrote a long poetry/(b) about the cuckoo./(c) No error (d)

**Directions (57-61) :** In these 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 and indicate it in the Answer-Sheet.

57. The leader, with all his men, ..... imprisoned.  
 (a) was (b) were (c) are (d) will
58. I can imagine no place ..... interesting than a railway station.  
 (a) as (b) better  
 (c) more (d) equally
59. She did not approve ..... my going abroad for further studies.  
 (a) about (b) over (c) with (d) of
60. She ..... because she had been waiting for you for an hour.  
 (a) was angry (b) is angry  
 (c) will be angry (d) shall be angry
61. Racial violence erupted throughout the United States ..... Martin Luther king was assassinated in April 1968.  
 (a) while (b) for (c) because (d) when

**Directions (62-64) :** In these questions, out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

62. She **baffled** me with her argument.

- (a) defeated (b) surprised  
(c) perplexed (d) convinced

63. **INDIGENOUS**

- (a) Wholesome (b) Homely  
(c) Indignant (d) Native

64. **AT LOGGERHEADS**

- (a) Quarrelling (b) Heading  
(c) Gorgeous (d) Logical

**Directions (65-67) :** In these questions, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

65. **FLAGRANT**

- (a) Modest (b) Mediocre  
(c) Meek (d) Mild

66. **WHOLESOME**

- (a) Discursive (b) Unhealthy  
(c) Incomplete (d) Discrete

67. **OSTENSIBLE**

- (a) Unostentatious (b) Insensible  
(c) Actual (d) Apparent

**Directions (68-70) :** In these questions, there are four different words out of which one is correctly spelt. Find the correctly spelt word and indicate it by blackening the appropriate mark it in the Answer Sheet.

68. (a) Embaras (b) Embarass  
(c) Embarres (d) Embarrass
69. (a) Courageous (b) Courageous  
(c) Corageous (d) Corrageous
70. (a) Changeble (b) Changeable  
(c) Changable (d) Changable

**Directions (71-75) :** In these questions, four alternatives are given for the Idiom/Phrase **bold** in the sentence. Choose the alternative which best expresses the meaning of the Idiom/Phrase and mark it in the Answer Sheet.

71. I'm sure the new office order **serves them right**.

- (a) realise their mistakes  
(b) changes their mind  
(c) gives good service to them  
(d) get what they deserve

72. When he took charge as the General Manager of the company, the situation was **at sixes and sevens**.

- (a) in utter confusion  
(b) the money was meagre  
(c) the company was in debt  
(d) only a few workers were there

73. He is always in debt as he **makes ducks and drakes** of his money.

- (a) often buys non-vegetarian dishes with  
(b) often squanders money

(c) grows ducks and hens  
(d) gives loans to other people

74. The manager gave his secretary her **marching orders** when he found her work unsatisfactory.

- (a) punishment (b) dismissal  
(c) punishment (b) dismissal  
(d) training

75. Trying to find life on the Mars is a **wild goose chase**.

- (a) mad race for something  
(b) competition where one is prepared to face the consequences  
(c) a futile exercise  
(d) useful enterprise

**Directions (76-79) :** In these questions, out of the four alternatives choose the one which can be substituted for the given words/sentence.

76. 'A small flowing waterfall' :

- (a) cascade (b) ascend  
(c) break flow (d) trickle

77. 'One who writes dictionaries' :

- (a) interpreter (b) lexicographer  
(c) philologist (d) composer

78. One who writes with both his hands :

- (a) amphibious (b) ambiguous  
(c) ambidextrous (d) ambiskilled

79. Murder of one's father :

- (a) matricide (b) patriarchal  
(c) slaughter (d) patricide

**Directions (80-85) :** In these questions, a part of the sentence is **bold**. Below are given alternatives to the **bold** part at (a), (b), (c) which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is (d). Mark your answer in the Answer Sheet.

80. How many copies **did we sent** with the order ?

- (a) sent we (b) did we send  
(c) have we send (d) No improvement

81. I can't find my glasses, **you saw them** anywhere ?

- (a) have you seen (b) saw you  
(c) are you seeing (d) No improvement

82. Their product is **marketed** more imaginatively this season.

- (a) is been marketed (b) is being marketed  
(c) is marketing (d) No improvement

83. If you **placed** ice in warm water, it soon melts.

- (a) will place (b) would place  
(c) place (d) No improvement

84. The level of discount is **depending** on the size of the order that is placed.

- (a) depends on (b) depends with  
(c) is depending upon (d) No improvement

85. We are looking forward to **seeing** you at next year's conference.

- (a) to see you (b) seeing  
(c) that we will see (d) No improvement

**Directions (86-100) :** In these questions, you have following two passages with 10 questions in Passage-I and 5 questions in Passage-II. Read the passages carefully and choose the best answer to fill in the blanks out of the four alternatives given and mark it in the answer sheet.

### PASSAGE - I

Smoking is the biggest preventable ...**(86)**... to mankind. Many serious ...**(87)**... including lung-cancer, bronchitis and heart attack are ...**(88)**... to smoking habits. Smoking in any form whether cigarette, cigar, pipe, bidi or tobacco chewing has been ...**(89)**... as a major ...**(90)**... factor for heart attack. A recent Soviet study has shown that smoking ...**(91)**... a man's life span by 2250 days (over 6 years). The increasing ...**(92)**... of heart attacks in India, fast ...**(93)**... among the younger generation has been largely ...**(94)**... to smoking habits. Nearly 30 million people in the country are estimated to be ...**(95)**... of heart disease.

86. (a) measure (b) menace  
(c) tragedy (d) solace
87. (a) infections (b) diseases  
(c) ailments (d) injuries
88. (a) caused (b) traced  
(c) averse (d) prone
89. (a) developed (b) explained  
(c) attributed (d) identified
90. (a) risk (b) important

- (c) critical  
91. (a) extends (b) reduces  
(c) compresses (d) prolongs
92. (a) amount (b) quota  
(c) incidence (d) quantity
93. (a) reaching (b) inculcating  
(c) developing (d) spreading
94. (a) attributed (b) related  
(c) influenced (d) extended
95. (a) victims (b) devoid  
(c) donors (d) free

### PASSAGE - II

Marriages were arranged in the ...**(96)**... Hindu society. These marriages were mostly ...**(97)**... For, the families of the boys and girls were ...**(98)**... to each other. They were equal in social and ...**(99)**... Status. Their ...**(100)**... and outlook on life were common.

96. (a) rational (b) modern  
(c) traditional (d) fashionable
97. (a) successful (b) failures  
(c) incompatible (d) suitable
98. (a) unknown (b) known  
(c) familiar (d) unfamiliar
99. (a) political (b) religious  
(c) economic (d) spiritual
100. (a) habits (b) looks  
(c) actions (d) jobs

## PART - III : QUANTITATIVE APITUDE

101. If  $\sin \theta + \cos \theta = \sqrt{2} \sin (90^\circ - \theta)$ , then  $\cot \theta$  is equal to :

- (a)  $\sqrt{2} - 1$  (b)  $\sqrt{2} + 1$   
(c)  $\frac{1}{\sqrt{2} + 2}$  (d) None of these

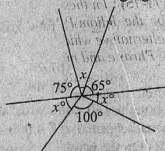
102. A wheel makes 360 revolutions in a minute. The number of radians through which it turns in one second is :

- (a)  $10\pi^\circ$  (b)  $8\pi^\circ$   
(c)  $12\pi^\circ$  (d)  $11\pi^\circ$

103. A car is travelling on a straight road leading to a tower. From a point at a distance of 500 m from the tower, as seen by the driver, the angle of elevation of the top of the tower is  $30^\circ$ . After driving towards the tower for 10 seconds, the angle of elevation of the top of the tower as seen by the driver is found to be  $60^\circ$ . Then the speed of the car is :

- (a) 120 km/hr (b) 90 km/hr  
(c) 135 km/hr (d) 110 km/hr

104. The value of  $x$  in the following figure is :



- (a)  $50^\circ$  (b)  $60^\circ$  (c)  $40^\circ$  (d)  $70^\circ$

105. If  $P$  denotes the perimeter and  $S$  denotes the sum of the distances of a point within a triangle from its angular points, then :

- (a)  $S < P$  (b)  $S \leq P$  (c)  $P < S$  (d)  $P \leq S$

106. In triangle  $ABC$ ,  $AB = 12$  cm,  $\angle B = 60^\circ$ , the perpendicular from  $A$  to  $BC$  meets it at  $D$ . The bisector of  $\angle ABC$  meets  $AD$  at  $E$ . Then  $E$  divides  $AD$  in the ratio :

- (a) 1 : 1 (b) 2 : 1 (c) 3 : 1 (d) 6 : 1

107. If  $a : b = 2 : 3$ ,  $b : c = 4 : 5$  and  $c : d = 6 : 7$ , then  $a : d =$

- (a) 16 : 35  
(b) 24 : 25  
(c) 12 : 35  
(d) 24 : 35

108. If the average of  $x$  and  $\frac{1}{x}$  be 1, then the value of  $x^{10} + \frac{1}{x^{10}}$  is :

- (a) 0  
(b) 1  
(c) -2  
(d) 2

109. If the operation  $\odot$  is defined for all real number  $a$  and  $b$  by the relation :

$$a \odot b = \frac{a^2 b}{3}, \text{ then } 2 \odot \{3 \odot (-1)\} =$$

- (a) -4  
(b) -2  
(c) 2  
(d) 4

110.  $P$  owns  $\frac{2}{3}$  shares of a company and the rest of the shares

is equally divided among  $Q$  and  $R$ . If the profit on each share increases from 5% to 7%,  $P$  earns an extra ₹ 800/-. The investment of  $R$  on the shares is :

- (a) ₹ 10,000/-  
(b) ₹ 40,000/-  
(c) ₹ 20,000/-  
(d) ₹ 15,000/-

111. A sum of money lent at compound interest for 2 years at 20% per annum would fetch ₹ 482/- more, if the interest was payable half yearly than if it was payable annually. The sum is :

- (a) ₹ 10,000/-  
(b) ₹ 20,000/-  
(c) ₹ 30,000/-  
(d) ₹ 40,000/-

112. A man travels  $\frac{2}{15}$  of the total journey by rail,  $\frac{9}{20}$  by car

and the remaining 10 km on foot. His total journey in km is :

- (a) 30  
(b) 24  
(c) 36  
(d) 40

113. A merchant bought 140 cupboards at an auction. He sold 80 of them at a profit of ₹ 4,000/- and the rest at a loss of ₹ 1,200. On the whole, he gained 10%. Then the cost of each cupboard is :

- (a) ₹ 200/-  
(b) ₹ 180/-  
(c) ₹ 210/-  
(d) ₹ 190/-

114. 50 boxes with equal weights were loaded in a ship. 5 more boxes each weighing 105 kg were later added, making the average weight of all the 55 boxes as 95 kg. The weight of each of the 50 boxes first loaded is :

- (a) 95 kg  
(b) 92 kg  
(c) 98 kg  
(d) 94 kg

115. In a club, the average age of the members is 30 years, the average age of the male members is 34 years and that of the female members is 26 years. The percentage of the male members is :

- (a) 50%  
(b) 40%  
(c) 50%  
(d) 60%

116. In 60 litres beverage, the ratio of syrup and water is 3 : 7. If the ratio of the syrup and water is to be made 2 : 5, then the amount of water to be further added is :

- (a) 2 litres  
(b) 3 litres  
(c) 5 litres  
(d) 2.5 litres

117. If a trader sold an article at ₹ 3,060/- after allowing 15% and 10% successive discounts on marked price, then the marked price is :

- (a) ₹ 3,000/-  
(b) ₹ 4,000/-  
(c) ₹ 5,000/-  
(d) ₹ 6,000/-

118. The area of a trapezium is 105 sq m and the lengths of its parallel sides are 9 m and 12 m respectively. Then the height of the trapezium is :

- (a) 5 m  
(b) 10 m  
(c) 15 m  
(d) 12 m

119. A can finish a work in 24 days, B in 9 days and C in 12 days. B and C start the work but they are forced to leave after 3 days. The remaining work was done by A in :

- (a) 5 days  
(b) 6 days  
(c) 10 days  
(d)  $10\frac{1}{2}$  days

120. When 7 is subtracted from thrice a number, the result is 14. What is the number ?

- (a) 6  
(b) 7  
(c) 8  
(d) 9

121. The least number which should be multiplied to 243 to get a perfect cube is :

- (a) 2  
(b) 3  
(c) 6  
(d) 9

122. Product of the three consecutive numbers whose sum is 15, is :

- (a) 125  
(b) 105  
(c) 120  
(d) 150

123.  $X$  and  $Y$  can do a piece of work in 30 days. They work together for 6 days and then  $X$  quits and  $Y$  finishes the work in 32 more days. In how many days can  $Y$  do the piece of work alone ?

- (a) 30 days  
(b) 32 days  
(c) 34 days  
(d) 40 days

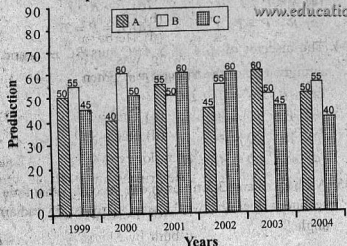


124. A metal pipe of negligible thickness has radius 21 cm and length 90 cm. The outer curved surface area of the pipe in square cm is :  
 (a) 11880 (b) 11680  
 (c) 11480 (d) 10080
125. A businessman allows a discount of 10% on the written price. How much above the cost price must he mark his goods to make a profit of 17% ?  
 (a) 30% (b) 20%  
 (c) 27% (d) 18%
126. 465 coins consists of ₹ 1/-, 50 paise and 25 paise coins. Their values are in the ratio 5 : 3 : 1. The number of each type of coins respectively is :  
 (a) 155, 186, 124 (b) 154, 187, 124  
 (c) 154, 185, 126 (d) 150, 140, 175
127. A batsman makes a score of 58 runs in the 15th innings and thus increases his average by 3 runs. What is the average after 15th inning ?  
 (a) 12 (b) 34  
 (c) 16 (d) 18
128. The average of 5 consecutive numbers is  $n$ . If the next two numbers are also included, the average of the 7 numbers will :  
 (a) increase by 2 (b) increase by 1  
 (c) remain the same (d) increase by 1.4
129. A man sold an article at a loss of 20%. If he sells the article for ₹ 12/- more, he would have gained 10%. The cost price of the article is :  
 (a) ₹ 60/- (b) ₹ 40/-  
 (c) ₹ 30/- (d) ₹ 22/-
130. A trader has a weighing balance that shows 1,200 gm for a kilogram. He further marks up his cost price by 10%. Then the net profit percentage is  
 (a) 32% (b) 23%  
 (c) 31.75% (d) 23.5%
131. A car covers four successive 6 km stretches at speeds of 25 kmph, 50 kmph, 75 kmph and 150 kmph respectively. Its average speed over this distance is :  
 (a) 25 kmph (b) 50 kmph  
 (c) 75 kmph (d) 150 kmph
132. The difference between C. I. (Compound Interest) and S.I. (Simple Interest) on a sum of ₹ 4,000/- for 2 years at 5% p.a. payable yearly is :  
 (a) ₹ 20/- (b) ₹ 10/-  
 (c) ₹ 50/- (d) ₹ 60/-
133. If  $P, R, T$  are the area of a parallelogram, a rhombus and a triangle standing on the same base and between the same parallels, which of the following is true ?  
 (a)  $R \leq P < T$  (b)  $P > R > T$   
 (c)  $R = P = T$  (d)  $R = P = 2T$
134. The bisector of  $\angle A$  of  $\Delta ABC$  cuts  $BC$  at  $D$  and the circumcircle of the triangle at  $E$ . Then :  
 (a)  $AB : AC = BD : DC$   
 (b)  $AD : AC = AE : AB$   
 (c)  $AB : AD = AC : AE$   
 (d)  $AB : AD = AE : AC$
135. A wheel rotates 3.5 times in one second. What time (in seconds) does the wheel take to rotate 55 radian of angle ?  
 (a) 1.5 (b) 2.5  
 (c) 3.5 (d) 4.5
136. The radian measure of  $63^\circ 14' 51''$  is :  
 (a)  $\left(\frac{281\pi}{8000}\right)^\circ$  (b)  $\left(\frac{381\pi}{8000}\right)^\circ$   
 (c)  $\left(\frac{481\pi}{8000}\right)^\circ$  (d)  $\left(\frac{581\pi}{8000}\right)^\circ$
137. In a triangle  $ABC$ ,  $AB = AC$ ,  $BA$  is produced to  $D$  in such a manner that  $AC = AD$ . The circular measure of  $\angle BCD$  is :  
 (a)  $\frac{\pi}{6}$  (b)  $\frac{\pi}{3}$   
 (c)  $\frac{2\pi}{3}$  (d)  $\frac{\pi}{2}$
138.  $\frac{\sin \theta + \cos \theta + 1}{\sin \theta + \cos \theta - 1}$  (where  $\theta \neq \frac{\pi}{2}$ ) is equal to :  
 (a)  $\frac{1 + \sin \theta}{\cos \theta}$  (b)  $\frac{1 - \sin \theta}{\cos \theta}$   
 (c)  $\frac{1 - \cos \theta}{\sin \theta}$  (d)  $\frac{1 + \cos \theta}{\sin \theta}$
139. If  $\sin^2 \alpha = \cos^3 \alpha$ , then the value of  $(\cot^6 \alpha - \cot^2 \alpha)$  is :  
 (a) 1 (b) 0  
 (c) -1 (d) 2
140. The simplified value of  $(1 + \tan \theta + \sec \theta)(1 + \cot \theta - \operatorname{cosec} \theta)$  is :  
 (a) -2 (b) 2  
 (c) 1 (d) -1



**Directions (141-145) :** Study the following graph carefully to answer the question given below it.

**Production of paper (in lakh tonnes) by 3 different companies A, B and C over the years**

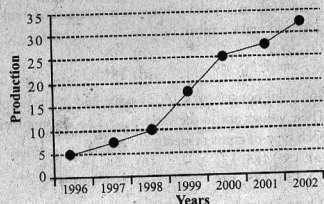


141. What is the difference between the production of company C in 1999 and the production of company A in 2004 ?  
 (a) 50,000 tonnes (b) 5,00,0000 tonnes  
 (c) 50,00,000 tonnes (d) 5,00,000 tonnes
142. What is the percentage increase in production of company 'A' from 2000 to 2001 ?  
 (a) 37.5 (b) 38.25  
 (c) 35 (d) 36
143. For which of the following years the percentage of rise/fall in production from the previous year is the maximum for company B ?  
 (a) 2000 (b) 2001  
 (c) 2002 (d) 2003
144. The total production of company C in 2001 and 2002 is what percentage of the total production of company A in 1999 and 2000 ?  
 (a) 95 (b) 90  
 (c) 110 (d) 133.33
145. What is the difference between the average production per year of the company with highest average production and the company with lowest average production in lakh tonnes ?

- (a) 4.17 (b) 4.33  
 (c) 4.17 (d) 3.33

**Directions (146-150) :** Study the following graph to answer the given questions :

**Production of a company (in lakh units) over the given years**



146. The production in 2002 is what per cent of production in 1996 ?  
 (a) 650% (b) 550%  
 (c) 325% (d) 320%
147. What is the **approximate** average production (in lakhs) for the given years ?  
 (a) 18 (b) 19  
 (c) 20 (d) 18.5
148. Which of the following is the **highest** difference in production between two adjacent years ?  
 (a) 5 lakhs (b) 10 lakhs  
 (c) 9 lakhs (d) 7.5 lakhs
149. Which year had the **highest** per cent increase in production over the previous year ?  
 (a) 2000 (b) 1999  
 (c) 2002 (d) 1997
150. For which of the following values of  $x$  is the inequality  $x(x + 3) < 10$  satisfied ?  
 (a)  $x > 2, x < -5$  (b)  $-5 < x < 2$   
 (c)  $-2 < x < 5$  (d)  $x < -2, x > 5$

## PART - IV : GENERAL AWARENESS

151. The National Commission for Minorities was constituted in the year :  
 (a) 1990 (b) 1092  
 (c) 1980 (d) 1989
152. The first Indian who was chosen as the Secretary-General of Commonwealth is :  
 (a) Rakesh Verma (b) Gopalaswami  
 (c) Krishna Murthy (d) Kamallesh Sharma
153. In which of the following systems of government is bi-cameralism an essential feature ?  
 (a) Federal system (b) Unitary system  
 (c) Parliamentary system (d) Presidential system
154. Kuldip Nayar, a journalist, was appointed as a High Commissioner in :  
 (a) Sri Lanka (b) Australia  
 (c) UK (d) Pakistan

155. Which king is referred to as Devanampiya Piyadasi (Beloved of the Gods) in the inscriptions ?  
(a) Asoka (b) Harsha  
(c) Bindusara (d) Chandragupta Maurya
156. Socialism succeeds in achieving :  
(a) higher standard of living of the people  
(b) equal distribution of income in the society  
(c) higher individual welfare in the society  
(d) maximum social welfare in the society
157. Monopolist resorts to price discrimination depending upon the :  
(a) Elasticity of supply (b) Elasticity of demand  
(c) Law of demand (d) Law of supply
158. Economic planning is an essential feature of :  
(a) Socialist economy (b) Capitalist economy  
(c) Mixed economy (d) Dual economy
159. The HYV programme in India is also called as :  
(a) Traditional Agriculture  
(b) New Agricultural Strategy  
(c) White Revolution  
(d) Blue Revolution
160. The National Policy for Empowerment of Women was adopted in the year :  
(a) 2001 (b) 2005  
(c) 1991 (d) 1995
161. Ballots were first used in :  
(a) Australia (b) USA  
(c) Ancient Greece (d) England
162. The Rashtriya Barh Ayog (RBA) is related with :  
(a) Droughts and Floods  
(b) Poverty Alleviation  
(c) Floods  
(d) Disaster Management
163. Which of the following criteria is **not** used for the classification of human races ?  
(a) Nose (b) Hair  
(c) Eyes (d) Ear
164. Railway coaches are manufactured at :  
(a) Jamshedpur (b) Chittaranjan  
(c) Perambur (d) Varanasi
165. Fertilization occurs normally in the :  
(a) Cervix (b) Vagina  
(c) Fallopian tube (d) Uterus
166. People consuming alcohol in heavy quantities generally die of :  
(a) liver or stomach cancer  
(b) weakening of heart muscles leading to cardiac arrest
- (c) blood cancer  
(d) cirrhosis
167. The organisms at the base of the grazing food-chain are :  
(a) Carnivores (b) Decomposers  
(c) Producers (d) Herbivores
168. Who among the following was credited with the destruction of 'Chihalgani', a group of powerful tribes ?  
(a) Balban (b) Qutb-ud-din Aibak  
(c) Iltutmish (d) Razia Sultan
169. Bombay was given away as dowry to the English King Charles II for marrying the Princess of :  
(a) France (b) Portugal  
(c) Holland (d) Denmark
170. The Grand Trunk Road built by Shershah connected Punjab with :  
(a) Agra (b) East Bengal  
(c) Lahore (d) Multan
171. Name the Maratha Saint who was a contemporary of Shivaji.  
(a) Saint Eknath (b) Saint Tukaram  
(c) Saint Dhyaneswar (d) Namdev
172. The study of lakes is called :  
(a) Topology (b) Hydrology  
(c) Limnology (d) Potomology
173. A series of lines connecting places having a quake at the same time are called :  
(a) Homoseismal lines (b) Seismolines  
(c) Coseismal lines (d) Isoseismal lines
174. 'Lumen' is the unit of :  
(a) Illuminance  
(b) Brightness  
(c) Luminous flux  
(d) Luminous intensity
175. The transfer of data from a CPU to peripheral devices of computer is achieved through :  
(a) interfaces (b) buffer memory  
(c) modems (d) computer ports
176. Which of the following items is **not** used in Local Area Networks (LANs) ?  
(a) Interface Card (b) Cable  
(c) Computer (d) Modem
177. The mass of 10 moles of water is :  
(a) 90 g (b) 45 g  
(c) 18 g (d) 180 g
178. Vitamin A is rich in :  
(a) Carrot (b) Lime  
(c) Beans (d) Rice

179. The high boiling point of water compared to hydrogen sulphide or hydrogen chloride is due to :

- (a) Dipole insulation
- (b) Van der Waal's attraction
- (c) Polar covalent bonding
- (d) Hydrogen bonding

180. Which of the following determines the chemical properties of an element ?

- (a) Number of electrons
- (b) Number of neutrons
- (c) Number of protons
- (d) All of the above

181. The Central Drug Research Institute of India is located at :

- (a) Madras
- (b) Lucknow
- (c) Delhi
- (d) Bangalore

182. Which of the following cereals was among the first to be used by man ?

- (a) Rye
- (b) Wheat
- (c) Barley
- (d) Oat

183. Which of the following wheat species are being cultivated in India ?

- (a) Club wheat
- (b) Durum wheat
- (c) Emmer wheat
- (d) Bread wheat

184. Which one of the following forces is a 'dissipative force' ?

- (a) Electrostatic force
- (b) Magnetic force
- (c) Gravitational force
- (d) Frictional force

185. If a resistive wire is elongated, its resistance :

- (a) decreases
- (b) remains constant
- (c) increases
- (d) All of the above

186. If a magnet has a third pole, then the third pole is called :

- (a) defective pole
- (b) consequent pole
- (c) extra pole
- (d) arbitrary pole

187. How many spokes are there in the Dharmachakra of the National Flag ?

- (a) 14
- (b) 18
- (c) 22
- (d) 24

188. The latest official language of the U.N. is :

- (a) Russian
- (b) Arabic
- (c) Chinese
- (d) Spanish

189. According to a report by Aspiring Minds, an employability solutions company, around how many percent graduates in India are unemployable for any job ?

- (a) 47
- (b) 45
- (c) 42
- (d) 41

190. Who of the following was recently became the new Prime Minister of Australia ?

- (a) Kevin Rudd
- (b) Julia Gillard
- (c) Tony Abbott
- (d) Watson

191. Who of the following has recently won Scottish Open Golf Championship 2013 ?

- (a) Brandon Grace
- (b) Phil Mickelson
- (c) Tiger Woods
- (d) Tiger Woods

192. Who of the following was recently appointed by the Basketball Federation of India (BFI) the head coach of India's Senior Women's Basketball squad ?

- (a) Francisco Garcia
- (b) Pete Gaudet
- (c) Amaya Valdemoro
- (d) None of above

193. Who of the following actress recently got the Best Actress award at 14th IIFA awards 2013 ?

- (a) Kareena Kapoor
- (b) Vidya Balan
- (c) Katrina Kaif
- (d) Anushka Sharma

194. The organisation involved primarily with environmental planning is :

- (a) CIFRI
- (b) ICAR
- (c) CSIR
- (d) NEERI

195. What would be the impact of global warming on mangrove forests ?

- (a) They will grow more luxuriant
- (b) Large areas of mangroves will be submerged
- (c) Their role as carbon sinks will become more important
- (d) Both (a) and (c) above

196. The sweet taste of fruits is due to :

- (a) Lactose
- (b) Fructose
- (c) Maltose
- (d) Ribose

197. The most endangered Asiatic top predator on the edge of extinction is :

- (a) Black Bear
- (b) Asiatic Lion
- (c) Siberian Tiger
- (d) Dhole

198. Analects is the sacred book of :

- (a) Confucianism
- (b) Judaism
- (c) Shintoism
- (d) Taoism

199. The seat of Madhya Pradesh High Court is located at :

- (a) Gwalior
- (b) Indore
- (c) Bhopal
- (d) Jabalpur

200. The brightest planet is :

- (a) Venus
- (b) Mercury
- (c) Jupiter
- (d) Mars