

PART A : GENERAL INTELLIGENCE & REASONING

Directions : In questions no. 1 to 4, select the related word/letters/number from the given alternatives.

1. Nose : Face :: Finger : ?
(A) Hand (B) Palm
(C) Body (D) Arm
2. Cricket : Pitch :: ? : ?
(A) Ship : Dock (B) Boat : Harbour
(C) Wrestling : Track (D) Boxing : Ring
3. STAR : TSRA :: ROSE : ?
(A) SORE (B) ORSE
(C) ORES (D) ESOR
4. 9 : 8 :: 16 : ?
(A) 27 (B) 18
(C) 17 (D) 14

Directions : In questions no. 5 to 7, find the odd word/letters/number from the given alternatives.

5. (A) Marker (B) Highlighter
(C) Pen (D) Paper
 6. (A) ACDE (B) HJKL
(C) PRST (D) MLNO
 7. (A) 13 (B) 15
(C) 17 (D) 19
8. Which one of the given responses would be a meaningful order of the following ?
1. Key
 2. Door
 3. Lock
 4. Room
- (A) 1, 2, 4, 3 (B) 4, 2, 1, 3
(C) 1, 2, 3, 4 (D) 1, 3, 2, 4

Directions : In questions no. 9 and 10, a series is given with one term missing. Out of the four alternatives, choose the alternative that will complete the series.

BDF, CFI, DHL, ?

- (A) CJM (B) EIM
(C) EJO (D) EMI

10. 6, 12, 20, 30, 42, ?
(A) 50 (B) 53
(C) 52 (D) 56
11. The present ages of Vikas and Raju are in the ratio of 5 : 4 respectively. Three years hence, the ratio of their ages will become 11 : 9 respectively. What is Raju's present age in years?
(A) 27 (B) 6
(C) 24 (D) 18
12. From the given alternatives select the word which cannot be formed using the letters of the given word :
ORIENTAL
(A) BENT (B) TALENT
(C) LATIN (D) RIOT
13. If 'MOHAN' is coded as 'KMFYL,' then 'COUNT' will be coded as
(A) MASRL (B) AMSLR
(C) MSLAR (D) SAMLR
14. Some equations are solved on the basis of a certain system. Find out the correct answer for the unsolved equation on that basis.
 $9 * 8 = 63, 7 * 8 = 49, 5 * 6 = 25, 11 * 7 = ?$
(A) 121 (B) 77
(C) 70 (D) 66
15. If '+' means 'x', '-' means '+', 'x' means '+' and '+' means '-', then $12 * 2 + 6 - 7 + 5 = ?$
(A) 37 (B) 38
(C) 39 (D) 40
16. Find the missing number from the given responses.

8	7	9
4	5	6
9	6	?
288	210	162

- (A) 3 (B) 4
(C) 8 (D) 7

SPACE FOR ROUGH WORK

b c d e
f g h i
j k l m n o
p q r s t

2, 1, 3
STAR
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40

1, 3, 4, 5
ROSE
13-1
14-1
15-1
16-1
17-1
18-1
19-1
20-1
21-2

8
3
16

9:8 : 16: ?
2:8 : 16: ?
1:8 : 16: ?
3:4 : 16: ?
PRST

17. A man walks from a point towards south. He turns right at right angle, then again turns right at right angle. In what direction is he walking now ?

- (A) East (B) West
(C) North (D) South

18. Two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true, even if they seem to be at variance from commonly known facts. You are to decide which of the given conclusions can definitely be drawn from the given statements. Indicate your answer.

Statements :
All men are aggressive.
All children are aggressive.

Conclusions :
I. Men are children.
II. Children are men.

- (A) Only conclusion I follows
(B) Only conclusion II follows
(C) Both conclusion I and conclusion II follow
(D) Neither conclusion I nor conclusion II follows

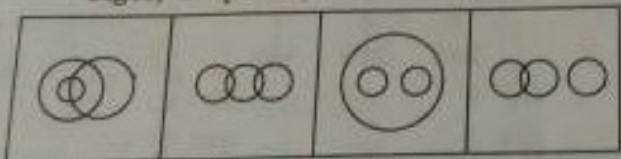
19. How many rectangles are there in the given figure ?



- (A) 4 (B) 8
(C) 5 (D) 9

20. Which of the following diagrams correctly represents the relationship amongst Tiger, Elephant, Animal ?

Tiger, Elephant, Animal ?



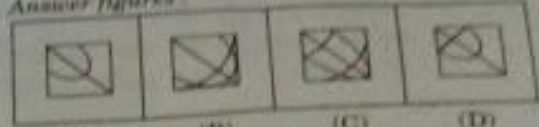
- (A) (B) (C) (D)

21. Which answer figure will complete the pattern in the question figure ?

Question figure :

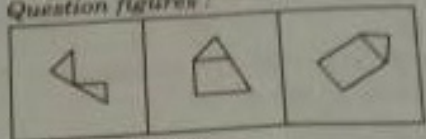


Answer figures :

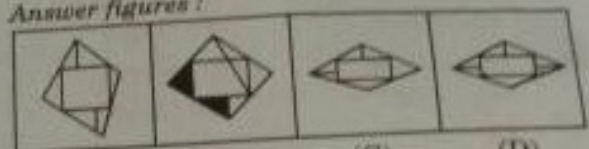


22. From the given answer figures, select the one in which the question figures are hidden/embedded.

Question figures :

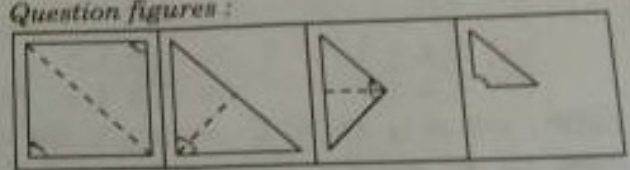


Answer figures :

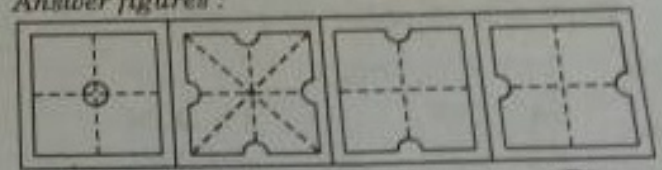


23. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

Question figures :



Answer figures :



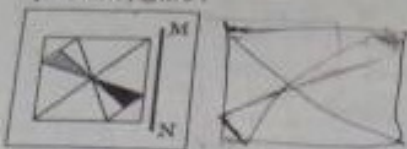
- (A) (B) (C) (D)

SPACE FOR ROUGH WORK



24. If a mirror is placed on the line MN, then which of the answer figures is the correct image of the question figure?

Question figure :



Answer figures :



(A) (B) (C) (D)

25. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'E' can be represented by 04, 21, etc., and 'P' can be represented by 56, 79, etc. Similarly, you have to identify the set for the word 'MAXI'.

Matrix I

	0	1	2	3	4
0	A	R	B	C	E
1	T	H	S	E	R
2	R	E	H	D	S
3	S	D	T	O	C
4	E	B	O	R	A

Matrix II

	5	6	7	8	9
5	K	P	I	L	M
6	X	W	Z	M	G
7	F	I	K	X	P
8	G	N	F	L	W
9	N	P	X	Z	L

- (A) 67, 65, 44, 75 (B) 76, 56, 34, 57
(C) 68, 00, 65, 76 (D) 86, 66, 56, 67

FOR VISUALLY HANDICAPPED / CEREBRAL PALSY CANDIDATES ONLY

19. Five men A, B, C, D and E read a newspaper. The one who reads first gives it to C. The one who read last had taken it from A. E was neither the first nor the last to read. There were two readers between B and A. B passed the newspaper to whom?
(A) A (B) C
(C) D (D) E
20. Arrange the following words as in the dictionary and choose the third in order :
Scope, Sceptile, Septic, Scapegoat, Scrap-book
(A) Septic (B) Scrap-book
(C) Scapegoat (D) Scope
21. In a line of boys, Shyam's position from the left is 17th and from the right is 19th. How many boys are there in the line?
(A) 36 (B) 35
(C) 34 (D) 37
22. A woman introduces a man as the son of the brother of her mother. How is the man related to the woman?
(A) Nephew (B) Son
(C) Uncle (D) Cousin
23. Select the number which does *not* belong to the given series :
3, 9, 18, 30, 44, 63, 84
(A) 30 (B) 63
(C) 44 (D) 18
24. C is younger than D. A is older than B. B is younger than C. If D is younger than E, older than A, then who is at the third position in order of increasing age?
(A) E (B) D
(C) C (D) B
25. If Wednesday was the first day of January, 2014, what was the last day of the year?
(A) Thursday (B) Tuesday
(C) Wednesday (D) Monday

SPACE FOR ROUGH WORK

MAXI
59
68, 00, 65, 76
59, 44

PART B : NUMERICAL APTITUDE

26. There are 222 red balls in a basket. A boy takes out 6 red balls from it and replaces them by 12 white balls. He continues to do so till all the red balls are replaced by white balls. Determine the number of white balls put in the basket.

- (A) 222 (B) 444
(C) 111 (D) 333

27. The least number to be subtracted from 16800 to make it a perfect square is

- (A) 249 (B) 169
(C) 219 (D) 159

28. A can do a piece of work in 30 days while B can do it in 40 days. In how many days can A and B working together do it?

- (A) 70 days (B) $42\frac{3}{4}$ days
(C) $27\frac{1}{7}$ days (D) $17\frac{1}{7}$ days

29. 3 men and 5 women can do a work in 14 days while 5 men can do it in 14 days. 5 men and 5 women can complete the work in

- (A) 12 days (B) 13 days
(C) 11 days (D) 10 days

30. Three small lead spheres of radii 3 cm, 4 cm and 5 cm respectively, are melted into a single sphere. The diameter of the new sphere is

- (A) 12 cm (B) 6 cm
(C) 7 cm (D) 8 cm

31. The height of a right circular cylinder is three times the radius of the base. If the height were four times the radius, the volume would be 1078 cc more than it was previously. Find the radius of the base.

- (A) 7 cm (B) 6 cm
(C) 5 cm (D) 7.5 cm

32. What was the rate of discount if a computer with marked price ₹ 30,000 was sold for ₹ 28,000?

- (A) 15% (B) 20%
(C) $7\frac{1}{2}\%$ (D) $6\frac{2}{3}\%$

33. A trader marks the sale price 25% more on cost price and gives a 10% discount at the time of selling. The gain percent is

- (A) 12% (B) $12\frac{1}{2}\%$
(C) $12\frac{1}{3}\%$ (D) $11\frac{1}{2}\%$

34. Peter bought an item at 20% discount on its original price. He sold it with 40% increase on the price he bought it. The new sale price is greater than the original price (in percent) by

- (A) 12 (B) 10
(C) 8 (D) 7.5

35. The speeds of three cars are in the ratio of 1 : 3 : 5. The ratio among the time taken by these cars to travel the same distance is

- (A) 5 : 3 : 1 (B) 3 : 5 : 15
(C) 15 : 3 : 5 (D) 15 : 5 : 3

36. ₹ 1,980 is divided among A, B and C so that half of A's part, one-third of B's part and one-sixth of C's part are equal. Then B's part is

- (A) ₹ 360 (B) ₹ 540
(C) ₹ 660 (D) ₹ 1,080

SPACE FOR ROUGH WORK

M
WM
5
017/Page 8
SM

$14 \frac{1}{14} =$

$\frac{1}{14} = 660 -$

A - 220
B - 1100
C - 660

$(\frac{1}{14} + \frac{1}{14})$

$\frac{14+14}{14}$

$\frac{28}{14} = 2$

$\frac{14}{2} = 7$

$\frac{14}{2} = 7$

$\frac{12}{2} = 6$

$\frac{1200}{2} = 600$

$\frac{660}{2} = 330$

$\frac{660}{2} = 330$

$\frac{1320}{2} = 660$

37. ₹ 600 is divided among A, B and C. ₹ 40 more than $\frac{2}{5}$ th of A's share, ₹ 30 more than $\frac{2}{7}$ th of B's share and ₹ 10 more than $\frac{1}{17}$ th of C's share are all equal. Then A's share is
 (A) ₹ 140 (B) ₹ 150
 (C) ₹ 170 (D) ₹ 280

38. The average of prime numbers between 1 and 20 is
 (A) 8 (B) 9
 (C) $9\frac{5}{8}$ (D) $10\frac{1}{8}$

39. A certain factory employed 600 men and 400 women and the average wage was ₹ 2.55 per day. If a woman got 50 paise less than a man, the daily wages of a man and a woman were
 (A) Man ₹ 3.25, Woman ₹ 2.75
 (B) Man ₹ 2.75, Woman ₹ 2.25
 (C) Man ₹ 5.30, Woman ₹ 2.50
 (D) Man ₹ 2.50, Woman ₹ 2.00

40. Rahul buys a book for ₹ 400 and sells it for ₹ 500. The difference between his profit as a percentage of the buying price and then as a percentage of the selling price is
 (A) 20% (B) 25%
 (C) 5% (D) 0%

41. A, B and C invested ₹ 13,000, ₹ 17,000 and ₹ 5,000 respectively in a business. At the end of the year, they earn a profit of ₹ 1,400. B's share of profit is
 (A) ₹ 720 (B) ₹ 680
 (C) ₹ 410 (D) ₹ 630

42. A shopkeeper sold one-third of his goods at a loss of 15%. To get a profit of 10% on the whole transaction, he should sell the remaining articles at a profit of
 (A) 25% (B) $22\frac{1}{2}$ %
 (C) $18\frac{2}{3}$ % (D) 15%

43. An examinee has to secure 40% marks to pass an examination. He secures 180 marks and fails by an equal number of marks. The total number of marks in the examination is
 (A) 800 (B) 900
 (C) 1000 (D) 1050

44. The monthly salary of Mr. Sachdev gets increased by 5%, thereby his salary becomes ₹ 15,120 per annum. His earlier monthly salary (before the increase) was
 (A) ₹ 1,440 (B) ₹ 1,320
 (C) ₹ 1,200 (D) ₹ 1,240

45. Two trains of equal length are running on parallel lines in the same direction at 46 km/hour and 36 km/hour. The faster train passes the slower train in 36 seconds. The length of each train is
 (A) 50 m (B) 72 m
 (C) 80 m (D) 82 m

46. A man walking at 3 km/hour crosses a square field diagonally in 2 minutes. The area of the field (in square metres) is
 (A) 2500 (B) 3000
 (C) 5000 (D) 6000

SPACE FOR ROUGH WORK

2017/10

2017/Page 10

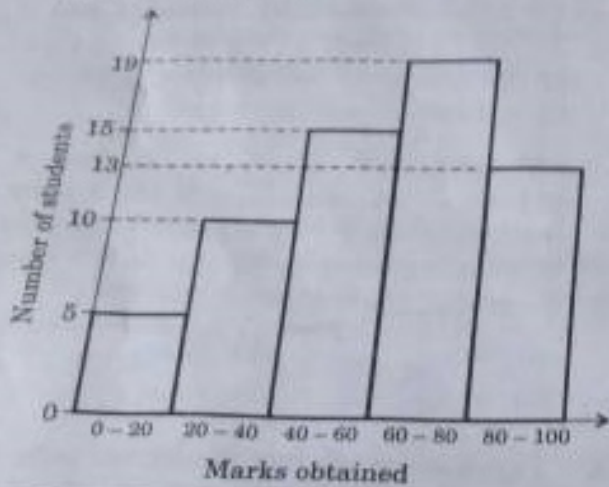
Handwritten notes and calculations:

- $\frac{100}{100}$
- 1, 8, 5, 7, 11, 13, 19
- type
- $3 = 14 \times 9$
- 3.9
- $46 \times 36 = 36$
- 3, 5, 50
- 15120
- 108

47. B borrows ₹ 2,000 from A at 8% p.a. simple interest and lends it to C at compound interest of 10% p.a. If B collects the money back from C after 2 years and repays A, the profit made by B in the transaction is
 (A) ₹ 600 (B) ₹ 1,050
 (C) ₹ 500 (D) ₹ 450

48. The least number of years in which a sum of money on 10% p.a. compound interest will be more than double is
 (A) 2 years (B) 3 years
 (C) 4 years (D) 5 years

Directions : The following histogram shows the relationship between the marks obtained by the students and the number of students in an examination. Study the histogram and answer the questions no. 49 and 50.



49. The ratio of the number of students who obtained 60 or more marks to that of students who obtained 60 or less marks is
 (A) 16 : 15
 (B) 15 : 16
 (C) 15 : 19
 (D) 14 : 17

50. The percentage of students who obtained 40 marks or less is
 (A) 15
 (B) 25
 (C) less than 25, but not 15
 (D) more than 24

FOR VISUALLY HANDICAPPED/CEREBRAL PALSY CANDIDATES ONLY

49. If the ratio of $\left(n + \frac{1}{n}\right)$ and $\left(n - \frac{1}{n}\right)$ be 5 : 4 then the value of n is
 (A) ± 2 (B) ± 3
 (C) ± 4 (D) ± 5

50. The greatest length of the scale that can measure exactly 30 cm, 90 cm, 1 m 20 cm and 1 m 35 cm lengths is
 (A) 5 cm (B) 10 cm
 (C) 15 cm (D) 30 cm

SPACE FOR ROUGH WORK

$$P \left[1 + \frac{x}{100} \right]^n$$

$$5000 \left[5000 + \frac{100}{100} \right]^2$$

$$\frac{5000 \times 100}{100} = 5000$$

$$\frac{5000 \times 100}{100} = 5000$$

$$\frac{5000 \times 100}{100} = 5000$$

PART C : GENERAL ENGLISH

Directions : In questions no. 51 to 60, a part of the sentence may have errors. Find out which part of the sentence has an error and blacken the circle (●) corresponding to the appropriate letter (A, B, C). If the sentence is free from error, blacken the circle corresponding to "No error" in the Answer Sheet.

51. The manager is having his problems / but we have / ours as well. / No error.
(A) (B) (C) (D)
52. The large balloons / I bought for Christmas / is very nice. / No error.
(A) (B) (C) (D)
53. Every member of the committee / have been present / at all the meetings. / No error.
(A) (B) (C) (D)
54. I will try to / tell to you / what you must do. / No error.
(A) (B) (C) (D)
55. I did not see / Meenu / since Monday. / No error.
(A) (B) (C) (D)
56. While I was driving home, / I heard some shocking news / at the radio. / No error.
(A) (B) (C) (D)
57. The old man / is too weak / to walk. / No error.
(A) (B) (C) (D)
58. Everyone of us has to be / very vigilant to safeguard / our hardly won liberty. / No error.
(A) (B) (C) (D)
59. Yesterday, I met a man / who was blind / with the right eye. / No error.
(A) (B) (C) (D)
60. The two first chapters of this book / are very interesting, / the remaining ones are
(A) (B) (C)

Directions : In questions no. 61 to 70, sentences are given with blanks to be filled in with appropriate words. Four alternatives are suggested for each question. Choose the most appropriate alternative out of the four and indicate it by blackening the corresponding circle in the Answer Sheet.

61. The village is _____ Sheffield (in England). It's only six miles away.
 (A) along (B) by
 (C) near (D) before
62. Karen sat at the table _____ a newspaper.
 (A) reading (B) writing
 (C) fidgeting (D) looking
63. Two _____ were sent to garrison the town.
 (A) regiments (B) armies
 (C) regimes (D) troops
64. The Ambassador was better _____ than the other delegates.
 (A) prepared (B) thoughtful
 (C) presentable (D) bred
65. He aimed the blow _____ my left eye.
 (A) to (B) in
 (C) at (D) from
66. The river abounds _____ fish and crocodiles.
 (A) on (B) with
 (C) of (D) at
67. The auditor was asked to _____ the accounts.
 (A) cheque (B) count
 (C) check (D) spot
68. Every student had to abide _____ the rules and regulations of the hostel.
 (A) with (B) in
 (C) by (D) against

69. Coventry is _____ Birmingham.
 (A) near (B) nearby
 (C) next (D) beside
70. To see is _____ to forgive divine.
 (A) humane (B) human
 (C) natural (D) kindness

Directions : In questions no. 71 to 73, out of the four alternatives, choose the one which best expresses the meaning of the given word.

71. Advance
 (A) Move forward (B) Bend
 (C) Give (D) Change
72. Recollect
 (A) Assemble (B) Return
 (C) Remember (D) Unite
73. Grave
 (A) Sad (B) Dead
 (C) Still (D) Serious

Directions : In questions no. 74 to 76, out of the four alternatives, choose the one which best expresses the meaning opposite to the given word.

74. Lethal
 (A) Good (B) Secure
 (C) Harmless (D) Just
75. Cautious
 (A) Exude (B) Daring
 (C) Inviting (D) Careful
76. Flippant
 (A) Busy (B) Earnest
 (C) Warm (D) Urgent

PART D : GENERAL AWARENESS

101. An economy in which there are no flows of labour, goods or money to and from other nations is called
 (A) open economy (B) slow economy
 (C) mixed economy (D) closed economy
102. Elasticity of demand is the degree of responsiveness of demand of a commodity to a
 (A) change in its price
 (B) change in consumers' wealth
 (C) change in the price of substitutes
 (D) change in consumers' tastes
103. The price of a commodity is the same as
 (A) Total revenue (B) Average revenue
 (C) Total cost (D) Average cost
104. Which one of the following is *not* a feature of monopoly?
 (A) Price discrimination
 (B) Single seller of the product
 (C) Heavy selling costs
 (D) Barriers to entry of new firms
105. The supply of labour in the market depends on
 (A) the size of population
 (B) the proportion of the population in the labour force
 (C) the number of person hours put in by each person
 (D) All the above
106. The term 'Fraternity' in the Preamble of the Indian Constitution means a sense of
 (A) brotherhood (B) friendliness
 (C) statehood (D) love and affection
107. Who presides over the sitting of the House of People?
 (A) The President
 (B) The Vice President
 (C) The Chief Justice of India
 (D) The Speaker
108. How many languages are recognised in the 8th Schedule of the Indian Constitution?
 (A) 14 (B) 22
 (C) 16 (D) 20
109. Which of the following authorities is *not* competent to issue writs for the enforcement of Fundamental Rights?
 (A) Parliament
 (B) President
 (C) Supreme Court
 (D) Supreme Court and High Courts
110. Which of the following is used as a logo of the World Wide Fund (WWF) for Nature?
 (A) Deer (B) Panda
 (C) Camel (D) Lion
111. Which of the following contains Alberuni's account of India?
 (A) *Kitab-ul-Hind*
 (B) *Chachnama*
 (C) *Fatah-us-Salatin*
 (D) *Tarikh-i-Yamini*
112. Buddha gave his first sermon at the Deer Park in
 (A) Lumbini (B) Magadha
 (C) Sarnath (D) Sanchi
113. 'Mohen-jo-daro' in Sindhi means
 (A) The mound of the dead
 (B) The city of evil spirits
 (C) The food of Pashupathi
 (D) The land of Shiva
114. What was Hampi known for?
 (A) It was the capital of Vijayanagara
 (B) It was the capital of Golconda
 (C) It had the largest stable in medieval India
 (D) It had the translation of the Indian epics to Persian
115. What was Kuomintang?
 (A) A nationalist party in China
 (B) A nationalist party in Japan
 (C) A fascist party in Japan
 (D) A terrorist organisation in China
116. Where is the Forest Research Institute India located?
 (A) Bhopal (B) Dehradun
 (C) Delhi (D) Lucknow

Directions : In questions no. 77 to 79, four alternatives are given for the Idiom/Phrase underlined in the sentence. Choose the alternative which best expresses the meaning of the Idiom/Phrase.

77. We talked over the matter for an hour but without any result.
(A) surveyed (B) assessed
(C) fought about (D) discussed
78. He struck several bad patches before he made good.
(A) came across bad weather
(B) eliminated many difficulties
(C) went through many illnesses
(D) had many professional difficulties
79. Our manager is feared by everyone for he is as hard as nails.
(A) strict (B) powerful
(C) unrelenting (D) fearsome

Directions : In questions no. 80 to 84, a sentence or a part of the sentence is underlined. Below are given alternatives to the underlined part which may improve the sentence. Choose the correct alternative. In case no improvement is required, blacken the circle (●) corresponding to "No improvement" in the Answer Sheet.

80. The economic environment is of late conducive for major political changes.
(A) conducive with
(B) conducive about
(C) conducive to
(D) No improvement
81. My interest in Physics has decreased.
(A) has diminished
(B) has been deceased
(C) has shortened
(D) No improvement

82. There was a few drop of rain.
(A) was a few drops
(B) were a few drop
(C) were a few drops
(D) No improvement

83. The hill is too high for climbing.
(A) for climbing up
(B) to climb
(C) for going up
(D) No improvement

84. I can always count on him in times of difficulty.
(A) count at him
(B) count him on
(C) count on he
(D) No improvement

Directions : In questions no. 85 to 89, out of the four alternatives, choose the one which can most appropriately substitute the given word(s) in the sentence.

85. A house where children with no parents are taken care of
(A) Orphanage (B) Creche
(C) Hospital (D) Nursery
86. An uneducated person
(A) Illiterate (B) Joker
(C) Clown (D) Instructor
87. A person learning a trade under someone
(A) Apprentice (B) Assistant
(C) Secretary (D) Clerk
88. That which is unlawful
(A) Illicit (B) Legal
(C) Court (D) Bail
89. Made or done without previous preparation
(A) Prompt (B) Immediate
(C) Impromptu (D) Urgent

117. Which one of the following is the indirect use of forests ?
 (A) Grazing
 (B) Medicinal plants
 (C) Checking soil erosion
 (D) Building material
118. Which one of the following States produces the largest amount of spices ?
 (A) Jammu & Kashmir (B) Kerala
 (C) Assam (D) Karnataka
119. The percentage of India's forested land out of total land is
 (A) 33% (B) 30%
 (C) 25% (D) less than 25%
120. Ahmedabad is situated along the bank of
 (A) Luni river (B) Sabarmati river
 (C) Narmada river (D) Banas river
121. The only living tissue in plant xylem is
 (A) Tracheid (B) Trachea
 (C) Xylem fibre (D) Xylem parenchyma
122. Insectivorous plants' trap insects for
 (A) Carbohydrates (B) Nitrogen
 (C) Fats (D) Vitamins
123. Riboflavin is a/an
 (A) Enzyme (B) Vitamin
 (C) Hormone (D) Fatty acid
124. Locomotory organ of a starfish is
 (A) Flipper (B) Tube feet
 (C) Paddle (D) Muscular foot
125. The latex of which plant is used commercially ?
 (A) Banyan tree
 (B) Papaya plant
 (C) Sial kanta plant
 (D) Rubber plant
126. The fuse in an electric circuit is connected in
 (A) series with live
 (B) series with neutral
 (C) parallel to live
 (D) parallel to neutral
127. Vegetables are cooked in lesser time by adding a pinch of salt while cooking because
 (A) boiling point of water decreases
 (B) boiling point of water increases
 (C) latent heat of vaporization of water decreases
 (D) latent heat of vaporization of water increases
128. Hydraulic brakes in automobiles work on
 (A) Bernoulli's principle
 (B) Poiseuille's principle
 (C) Pascal's principle
 (D) Archimedes' principle
129. The basic process taking place in nuclear reactors is
 (A) Fusion (B) Radioactivity
 (C) Fission (D) None of the above
130. _____ is required to boot a computer.
 (A) Compiler
 (B) Loader
 (C) Operating system
 (D) Assembler
131. _____ is the part of the Central Processing Unit (CPU).
 (A) Printer
 (B) Monitor
 (C) Arithmetic and Logic Unit
 (D) Keyboard
132. Direct access of file is also known as
 (A) sequential access
 (B) random access
 (C) relative access
 (D) file access
133. Which one of the following is a carbohydrate
 (A) Glucose (B) Urea
 (C) Insulin (D) Glycine
134. The source of oxygen in atmosphere is due to
 (A) Respiration
 (B) Photosynthesis
 (C) Excretion
 (D) Nitrogen fixation

135. Malathion is a/an
✓ (A) pesticide (B) insecticide
(C) fumigant (D) preservative

136. The working of a dry cell is based on
(A) Electrolysis
(B) Decomposition reactions
(C) Spontaneous oxidation-reduction reaction
(D) Combination reaction

137. Biosphere refers to
(A) the atmosphere surrounding the living organisms
(B) the area of the land inhabited by living organisms
(C) the part of ocean inhabited by plants and animals
(D) the portion of the earth, including the oceans, the land, the soil and the atmosphere inhabited by living organisms

138. Which of the following causes swine flu ?
(A) Virus (B) Bacteria
(C) Fungi (D) Tapeworm

139. Which of the following is the lowest atmospheric layer ?
(A) Hydrosphere (B) Lithosphere
(C) Stratosphere (D) Troposphere

140. Which of the following phenomena is supposedly associated with global warming ?
(A) Southern Oscillation
(B) El Niño
(C) La Niña
(D) El Niño Modoki

141. The Ranganatha Temple is situated at
(A) Srirangam (B) Kanchipuram
(C) Tirupati (D) Chennai

142. Who among the following is a famous Indian painter ?
✓ (A) Ravi Shankar
(B) Balamuralikrishna
(C) Yamini Krishnamurthy
(D) M.F. Hussain

143. Which action movie star was awarded on November, 2016 the honorary Academy (Oscar) Award for his extraordinary achievements in the movies ?
(A) Jackie Chan (B) Anil Kapoor
(C) Goy Ryder (D) Ferdinand Marcos

144. Which ground is called the 'Mecca of Cricket' ?
(A) Lords
(B) Eden Gardens
(C) Melbourne Cricket Ground
(D) Green Park

145. Where is FIFA, 2018 scheduled to be held ?
(A) Russia (B) Portugal
(C) Spain (D) Argentina

146. Which one of the following has **not** been launched during the tenure of the NDA Government at the Centre ?
✓ (A) Ujjwala Yojana
(B) Pradhan Mantri Jan Dhan Yojana
(C) MGNREGA Programme
(D) Swachh Bharat Abhiyan

147. Which one of the following organisations is financial institution ?
(A) ICICI
(B) KVIC
(C) IFCO
(D) SEBI

148. NITI Aayog is a
✓ (A) Constitutional Body
(B) Statutory Body
(C) Think Tank
(D) NGO

149. Which one of the following manages computer resources ?
(A) Exit (B) Boot
(C) Programmes (D) Texts

150. Over the years, birth rate in _____ and death rate has _____.
(A) fallen, fallen (B) risen, fallen
(C) risen, risen (D) fallen, risen

Directions : In questions no. 90 to 95, four words are given, out of which only one word is correctly spell. Find the correctly spell word.

90. (A) Supose (B) Suppose
(C) Suppose (D) Suppes
91. (A) Univarsity (B) Universitee
(C) University (D) Unavernity
92. (A) Marriage (B) Mariage
(C) Marryiage (D) Marrage
93. (A) Innumerable (B) Inumerable
(C) Innumarable (D) Innumereble
94. (A) Guarenty (B) Gauranty
(C) Guarantee (D) Guaranty
95. (A) Pessimisiam (B) Pesimism
(C) Pessimism (D) Pessimniam

Directions : In questions no. 96 to 100, read the following passage carefully and choose the most appropriate answer to each question out of the four alternatives.

Radium is a white powder that looks like table-salt. A pound of it is worth a thousand pounds of gold. Radium is very costly because it is so scarce. A mere pinch of it is worth a small fortune. There are only a few spoonfuls in all the world. But radium is so powerful that too much of it would be dangerous. If a pound or two could be gathered at one spot it would kill people who came near. Through radium, scientists hope to learn how to change one element into another. It would be interesting and profitable to change other metals into gold. But it would be worth more to man to learn how to get all the power from the atoms to do man's work.

96. What is the main subject of discussion in the passage?
(A) Gold
(B) Silver
(C) Radium
(D) Salt
97. The word 'fortune' here means
(A) inheritance
(B) wealth
(C) freedom
(D) power
98. Why is radium very costly?
(A) It is very useful.
(B) It is powerful and dangerous.
(C) It is found in small quantities.
(D) It helps man do his work.
99. Radium is considered dangerous because
(A) it would tell us how to get power from radium.
(B) it would help us to turn other metals in gold.
(C) it would kill millions due to radioactivity.
(D) it is so scarce.
100. The antonym of 'scarce' is
(A) rare
(B) insufficient
(C) abundant
(D) wealth