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CS(C)-10/18

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2018

TEST BOOKLET SERIES

TEST BOOKLET

PAPER-VI

Time allowed : 3 hours

Full marks : 200

Answer *all* the questions.

Questions are of equal value.



NB: This question paper is one of our student's. So marked answers may be right or wrong.

Serial No.

Roll No.

Signature of the Candidate:

INSTRUCTIONS

Candidates should read the following instructions carefully before answering the questions:

1. This booklet consists of 28 pages including this front page. Verify the Page Nos. and Test Booklet Series on each page and bring at once to the Invigilator's notice any discrepancy.
2. Answers will have to be given in the Special Answer-Sheet supplied for the purpose.
3. Before you proceed to mark in the Answer-Sheet in response to various items in the Test Booklet, you have to fill in some particulars in the Answer-Sheet as per instructions sent to you in the Admit Card. **Do not fold the Answer-Sheet as this will result in error in your marks.**
4. All questions are of multiple-choice answer-type. You will find **four** probable answers (A), (B), (C) and (D) against each question. Find out which of the four answers appears to you to be correct or the best. Now darken the oval corresponding to the letter of the selected answer in the Answer-Sheet with **Black Ball Point Pen** as per instructions printed on the reverse of the Admit Card and in the Answer-Sheet.
5. One and only one circle is to be fully blackened for answer. Any spot in any other circle (multiple circle) or in wrong circle will be considered as wrong answer.
6. **There will be negative marking of $\frac{1}{3}$ mark for each wrong answer.**
7. **There are blank pages at the end of this booklet for Rough Work.**
8. **The Special Answer-Sheet should be handed over to the Invigilator before leaving the Examination Hall. You are permitted to take away the used Test Booklet after completion of the examination.**

[Please Turn Over]

CS(C)-10/18

C-2

1. The ratio of velocity of hour's hand and minute's hand at a clock is
 - (A) 1:12
 - (B) 12:1
 - (C) 1:24
 - (D) 24:1
2. If a square and a rectangle having the same perimeter and their areas are S and R respectively then
 - (A) $S = R$
 - (B) $S > R$
 - (C) $S < R$
 - (D) None of the above
3. A parallelogram, a rectangle and triangular region stands on same base and between same parallel and if their area are P, R and T respectively, then
 - (A) $P = R = 2T$
 - (B) $P = R = \frac{T}{2}$
 - (C) $2P = 2R = T$
 - (D) $P = R = T$
4. Babu have made 4% loss by selling 12 toffees at Rs. 5. How many toffees he would sell at Rs. 10 to get 28% profit ?
 - (A) 28
 - (B) 18
 - (C) 12
 - (D) 9
5. If $x^3 + 6x^2 + 4x + K$ is divisible by $(x + 2)$, then the value of K is
 - (A) -6
 - (B) -7
 - (C) -8
 - (D) -10
6. Which of the following geometric figure has diagonals equal in length?
 - (A) Parallelogram
 - (B) Rhombus
 - (C) Trapezium
 - (D) Rectangle
7. If $\frac{X}{2Y} = \frac{6}{7}$, the value of $\frac{X-Y}{X+Y} + \frac{14}{19}$ is
 - (A) $\frac{13}{19}$
 - (B) $\frac{15}{19}$
 - (C) 1
 - (D) $1\frac{1}{19}$
8. The sum of all two digit numbers divisible by 5 is
 - (A) 1035
 - (B) 1245
 - (C) 1230
 - (D) 945
9. The number 0 is
 - (A) whole number but not integer.
 - (B) integer but not rational.
 - (C) rational but not real number.
 - (D) whole number, integer, rational and real number.
10. π and $\frac{22}{7}$ are
 - (A) both are rational number.
 - (B) both are always irrational number.
 - (C) π is rational and $\frac{22}{7}$ is irrational.
 - (D) π is irrational and $\frac{22}{7}$ is rational.

11. The value of $(0.243)^{0.2} \times (10)^{0.6}$ is
 (A) 0.3
 (B) 3
 (C) 0.9
 (D) 9
12. Two equations $3x + 6y = 15$ and $6x + 12y = 30$ have
 (A) only one solution
 (B) infinite number of solution
 ✓ (C) no solution
 (D) None of the above
13. A small owner took a loan of Rs.73000 from his friend. He repay principal along with interest Rs.73100 after 1 day. The rate of simple interest per annum is
 (A) 10%
 (B) 0.5%
 (C) 5%
 (D) 50%
14. The measures of two angles of a triangle are $35^\circ 57' 4''$ and $39^\circ 2' 56''$, then circular value of third angle is
 ✓ (A) $\frac{7\pi}{12}$
 (B) $\frac{\pi}{20}$
 (C) $\frac{5\pi}{12}$
 (D) π
15. If the length of shadow on the ground of a post is $\sqrt{3}$ times of its height, the angle of elevation of the Sun is
 ✓ (A) 30°
 (B) 45°
 (C) 60°
 (D) None of the above

16. If the numerical values of total surface area and volume of a cube are equal, then the length of its diagonal is

- ✓ (A) $6\sqrt{3}$
 (B) 6
 (C) $6\sqrt{2}$
 (D) $3\sqrt{6}$

17. If we subtract $\sqrt{5}$ from $\sqrt{125}$, the value is

- ✓ (A) $\sqrt{80}$
 (B) $\sqrt{120}$
 (C) $\sqrt{100}$
 (D) None of the above

18. A boy recorded the weight of some of his friends as 32kg, 30kg, 40kg, 65kg, 54kg, 38kg, 36kg, 45kg, 50kg, 52kg, 40kg. What is the median?

- (A) 38 kg
 (B) 40 kg
 (C) 45 kg
 ✓ (D) 43.8 kg

19. The number of coconuts plucked from each tree is 1 more than the number of coconut trees in Anil's garden. The total number of coconut plucked is 132. The total number of coconut trees in the garden is

- (A) 12
 (B) 22
 ✓ (C) 11
 (D) 33

CS(C)-10/18

C-4

20. It has been seen in a survey of a region that 70 persons read English newspaper, 73 persons read Bengali newspaper and 64 persons read both the papers. If 63 persons do not read any paper on how many people the survey has been done?

- (A) 79
- ✓ (B) 142
- (C) 207
- (D) 143

21. Through the publicity of road safety programmes the street accident in a state has been decreased by 10% in comparison to its previous year. In the present year if the number of street accidents be 2187, the number of street accidents that had been in the state 3 years before is

- (A) 4000
- (B) 2430
- ✓ (C) 3000
- (D) 1458

22. A hemisphere can with internal radius of 9 cm is completely filled with water. Someone is requested to fill this water in a cylindrical bottle with a diameter of 3 cm and height of 4 cm. The number of bottles to be required to make the can empty is

- ✓ (A) 54
- (B) 128
- (C) 36
- (D) 256

23. The Length of radius of spherical gas balloon increases from 7 cm to 21 cm as air being pumped into it. The ratio of surface areas of the balloon in two cases is

- (A) 9 : 1
- (B) 49 : 21
- (C) 1 : 9
- (D) 7 : 441

24. Total expenses of a hostel are partly constant and partly vary directly as the number of boarders. When the number of boarders are 120 and 100 the total expenses are Rs. 2000 and Rs. 1700 respectively. Find the total number of boarders if the total expense is Rs. 1880.

- (A) 200
- ✓ (B) 112
- (C) 138
- (D) 115

25. Amal and Bimal started a business. Amal invested Rs. 500 for 9 months and Bimal invested some money for 6 months. If they make a profit of Rs. 69 in a year and Bimal gets profit share of Rs. 46. The capital of Bimal in the business is

- ✓ (A) Rs. 1500
- (B) Rs. 3000
- (C) Rs. 4500
- (D) Rs. 6000

26. A, B and C entered into a partnership business by investing Rs. 64000, Rs. 52000 and Rs. 36000 respectively for a certain period of time. If A receives Rs. 35584 as annual profit, what amount will C receive as his share in the profit?

- ✓ (A) Rs. 20016
- (B) Rs. 20632
- (C) Rs. 18296
- (D) Rs. 21084

27. The sum of digits of a two-digit number is 12. When the digits are interchanged, the resulting number is 36 more than original number. What is the original two-digit number?

- (A) 93
- ✓ (B) 48
- (C) 39
- (D) 84

C-5

CS(C)-10/18

28. The sum of three consecutive multiples of 3 is 72. What is the largest number ?

- (A) 21
- (B) 24
- (C) 27
- (D) 36

29. 1 nanosecond is equal to

- ☒ (A) 10^{-6} second
- (B) 10^{-9} second
- (C) $\frac{1}{10}$ second
- (D) 10^{-3} second

30. The product of two numbers is 1320 and their H.C.F. is 6. The L.C.M. of number is

- ☒ (A) 220
- (B) 1314
- (C) 1326
- (D) 7920

31. A merchant has 1000 kg of sugar, part of which he sells at 8% profit and the rest at 18% profit. He gains 14% on the whole. The quantities sold at 18% profit is

- (A) 400 kg
- (B) 560 kg
- ☒ (C) 600 kg
- (D) 640 kg

32. If the cost price of 12 pens is equal to the selling price of 8 pens, the gain percentage is

- (A) 25%
- ☒ (B) $33\frac{1}{3}\%$
- (C) 50%
- (D) $66\frac{2}{3}\%$

33. What is the smallest number to be subtracted from 549162 in order to make it a perfect square ?

- (A) 28
- (B) 36
- (C) 62
- (D) 81

34. $0.04 \times X = 0.000016$, $X = ?$

- ☒ (A) 0.0004
- (B) 0.04
- (C) 4
- (D) None of the above

35. If the number 97251*6 is completely divisible by 11, then the smallest whole number in place of * will be

- ☒ (A) 6
- (B) 2
- (C) 1
- (D) 5

36. In an examination it is required to get 310 at the aggregate marks to pass. A student gets 28% mark and is declared failed by 93 marks. What are the maximum aggregate marks a student can get?

- (A) 685
- (B) 765
- ☒ (C) 775
- (D) 875

37. What is the volume of the cube (in cubic cm) whose diagonal measures $4\sqrt{3}$ cm?

- (A) 8
- (B) 16
- (C) 27
- ☒ (D) 64

[Please Turn Over]

CS(C)-10/18

C-6

38. How much time will it take for an amount of Rs. 450 to yield Rs. 81 as interest at 4.5% per annum of simple interest?

- (A) 3.5 years
- ✓ (B) 4 years
- (C) 4.5 years
- (D) 5 years

39. The compound interest on Rs. 30000 at 7% per annum is Rs. 4347. The period (in years) is

- (A) 2
- (B) $2\frac{1}{2}$
- (C) 3
- (D) 4

40. What is the difference between the compound interests on Rs. 5000 for $1\frac{1}{2}$ years at 4% per annum compounded yearly and half-yearly?

- (A) Rs. 2.04
- (B) Rs. 3.06
- (C) Rs. 4.08
- (D) Rs. 8.30

41. A man bought a house for Rs. 5 lakhs and rents it. He puts $12\frac{1}{2}\%$ of each month's rent aside for repairs, pays Rs. 1660 as annual taxes and realises 10% on his investment thereafter. The monthly rent of the house is

- (A) Rs. 2460
- (B) Rs. 2500
- (C) Rs. 4920
- (D) Rs. 5000

42. A trader mixes three varieties of groundnuts costing Rs. 50, Rs. 20 and Rs. 30 per kg. in the ratio 2 : 4 : 3 in terms of weight and sells the mixture at Rs. 33 per kg. What percentage of profit does he make?

- (A) 8%
- (B) 9%
- (C) 10%
- (D) None of the above

43. Which of the following ratios is greatest ?

- (A) 7 : 15
- (B) 15 : 23
- (C) 17 : 25
- (D) 21 : 29

44. If the edge of a cube is increased by 25% then percentage increase in its surface area is

- (A) 25%
- (B) 48.75%
- (C) 50%
- ✓ (D) 56.25%

45. A river 1.5m deep and 36 m wide is flowing at the rate of 3.5km per hour. The amount of water that runs into the sea per minute (in cubic meter) is

- ✓ (A) 3150
- (B) 31500
- (C) 6300
- (D) 63000

46. When the numerator of a fraction increases by 4, the fraction increases by $\frac{2}{3}$. The denominator of the fraction is

- (A) 2
- (B) 3
- (C) 4
- (D) 6

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C-7

CS(C)-10/18

47. Average of ten positive numbers is \bar{x} . If each number is increased by 10%, then \bar{x}

- (A) remains unchanged.
- (B) may decrease.
- (C) may increase.
- (D) is increased by 10%.

48. The value of $\sqrt{0.4}$ is

- ☒ (A) $0.\bar{6}$
- (B) $0.\bar{7}$
- (C) $0.\bar{8}$
- (D) $0.\bar{9}$

49. A cricket team won 3 matches more than they lost. If a Win gives them 2 points and Loss (-1) point, how many matches, in all, have they played if their score is 23?

- (A) 17
- (B) 20
- (C) 37
- (D) 40

50. Free books were distributed equally among children of a class. The number of books each child got was one-eighth of the number of children. Had the number of children been half, each child would have got 16 books. How many books were distributed in total?

- (A) 256
- (B) 432
- (C) 512
- (D) 640

51. If the total interest becomes Rs. x for any principal having the rate of simple interest of $x\%$ per annum for x years then the principal will be

- (A) Rs. x
- (B) Rs. $100x$
- (C) Rs. $\frac{100}{x}$
- (D) Rs. $\frac{100}{x^2}$

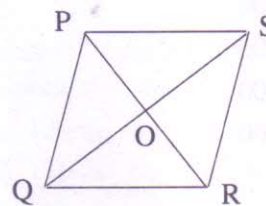
52. If the length of radius of a right circular cylinder is doubled and height is halved, the lateral surface area will be

- (A) equal
- (B) double
- (C) half
- (D) 4 times

53. The length of a radius of a circle is 13 cm. and the length of a chord of the circle is 10 cm., the distance of the chord from the center of the circle is

- (A) 12.5 cm.
- (B) 12 cm.
- (C) $\sqrt{69}$ cm.
- (D) 24 cm.

54.



The diagonals PR and QS of the rhombus intersect each other at the point O. What is the value of $\angle POS$?

- (A) Insufficient information
- (B) 90°
- (C) Any angle
- (D) 45°

[Please Turn Over]

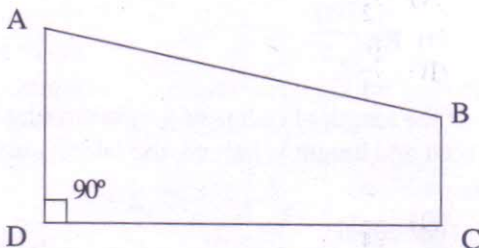
CS(C)-10/18

C-8

55. If (0,0), (4, -3) and (x, y) are collinear then

- (A) $x = 8, y = -6$
- (B) $x = 8, y = 6$
- (C) $x = 4, y = -6$
- (D) $x = -8, y = 6$

56.



In the above figure $AD \parallel BC$, $AD = 10$ cm, $BC = 5$ cm, $CD = 10$ cm. The area of ABCD is

- (A) 150 sq.cm
- (B) 75 sq.cm
- (C) 500 sq.cm
- (D) 250 sq.cm

57. A plot of 640 sq.ft. is available at the rate of Rs. 4,600 per sq.ft. If 30% of the total cost of the plot is to be paid for booking the plot. How much is the booking amount ?

- (A) Rs.9,38,100
- (B) Rs.8,83,200
- (C) Rs.9,83,200
- (D) Rs.8,38,100

58. A single person takes 6 minutes to fill a bottle. If from 11 am to 12.30 pm 1845 bottles are to be filled, how many persons should be employed on this job?

- (A) 121
- (B) 127
- (C) 123
- (D) 139

59. If an amount of Rs.84,105 is distributed equally amongst 35 children. How much amount would each child get?

- (A) Rs.2,430
- (B) Rs.2,043
- (C) Rs.2,403
- (D) None of the above

60. If area of circular field is X sq. unit, perimeter is Y unit and length of diameter is Z unit then the value of $\frac{X}{YZ}$ is

- (A) $\frac{1}{2}$
- (B) $\frac{1}{4}$
- (C) 1
- (D) $\frac{1}{8}$

61. $10^2 + \frac{1}{100} + 0.0001$ equals to

- (A) 1.000101
- (B) 10.00101
- (C) 100.0101
- (D) None of the above

62. If $S = ut + \frac{1}{2}at^2$ and $u = 50$, $a = 9.8$, $t = 2$ the value of S is

- (A) 119.6
- (B) 109.8
- (C) 69.6
- (D) 139.2

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C-9

CS(C)-10/18

63. A circular lawn has an area of 154 sq. meter. A path of 7 meter width surrounds the lawn. What is the area of the lawn including the path ? (in sq. meter)

- (A) 580
- (B) 516
- (C) 616
- (D) 637

64. Sushant spent 18% of his monthly salary on buying electronic goods and 32% of the monthly salary on repair work in his house. Out of remaining amount he invested 42% in fixed deposit. If he was left with Rs. 12,325, how much is his annual salary?

- (A) Rs. 5,18,000
- (B) Rs. 5,15,600
- (C) Rs. 5,10,000
- (D) Rs. 5,01,000

65. Present age of Neha and Rashmi are in the ratio of 7:8 respectively. Six years hence, the ratio of their ages will become 9:10 respectively. What is Rashmi's present age?

- (A) 36
- (B) 24
- (C) 28
- (D) 40

66. A is twice as good a workman as B. A and B together complete a piece of work in 28 days. In how many days will A alone do the same piece of work ?

- (A) 40 days
- (B) 42 days
- (C) 35 days
- (D) 36 days

67. A boat man can row a boat downstream and upstream at 13 kmph and 9 kmph respectively. What will be the speed of boat in still water? (in kmph)

- (A) 12
- (B) 10.5
- (C) 11
- (D) 10

68. Ram was asked to find $\frac{7}{8}$ of a fraction but he mistakenly divided the fraction by $\frac{7}{8}$. As a result the difference between the answers was $\frac{75}{784}$. What should be the Ram's correct answer?

- (A) $\frac{13}{32}$
- (B) $\frac{9}{14}$
- (C) $\frac{5}{16}$
- (D) $\frac{5}{14}$

69. If a man runs 6 kmph from his house, he misses the train at the station by 8 minutes. If he runs at 10 kmph, he reaches the station 7 minutes earlier than the departure of the train. What is the distance of the station from his house? (in km.)

- (A) $4\frac{3}{4}$
- (B) $3\frac{1}{2}$
- (C) $4\frac{1}{4}$
- (D) $3\frac{3}{4}$

70. The area of a circle is 2464 square meters. What will be its circumference?

- (A) 132 m
- (B) 176 m
- (C) 231m
- (D) 272 m

71. $\sqrt{324} + \sqrt{1296}$ equal to

- (A) 52
- (B) 44
- (C) 54
- (D) 42

[Please Turn Over]

CS(C)-10/18

C-10

72. The square of a number is 48 more than 22 times of itself. Find the number.

- (A) 25
- (B) 22
- (C) 24
- (D) 28

73. What will come in place of question mark?

12, 18, 36, 90, 270, ?

- (A) 945
- (B) 960
- (C) 845
- (D) None of the above

74. $4 + 0.4 + 0.04 + 0.004 - 0.23 = ?$

- (A) 4.226
- (B) 4.224
- (C) 4.414
- (D) 4.214

75. Total price of 6 shirts and 7 trousers is Rs.4,130 while that of 4 shirts and 9 trousers is Rs.4,270. Find out the price of 3 shirts.

- (A) Rs.850
- (B) Rs.840
- (C) Rs.860
- (D) Rs.810

76. If the product of two successive positive integers is 7482, which is the greatest integer ?

- (A) 87
- (B) 82
- (C) 84
- (D) 89

77. 35% of $200 + \sqrt{x} = 48\%$ of $550 - 10\%$ of 150. Then x equal to

- (A) 600
- (B) 21
- (C) 189
- (D) 35721

78. Ankur invested a sum of Rs. 16,800 for four years in a scheme. The rate of interest in the scheme is 8% per annum compounded yearly for the first two years and 10% for the 3rd and 4th years compounded yearly. What will be the compound interest at the end of 4 years ?

- (A) Rs. 6810
- (B) Rs. 6910
- (C) Rs. 6540
- (D) Rs. 6210

79. $123456789 \times 8 + 9$ is equal to

- (A) 98765431
- (B) 89765431
- (C) 987654321
- (D) None of the above

80. If $C =$ temperature in centigrade thermometer $F =$ temperature in Fahrenheit thermometer and they are related by $\frac{C}{5} = \frac{F - 32}{9}$, then find the temperature whose value is same in both thermometer.

- (A) - 42
- (B) - 40
- (C) 40
- (D) 42

81. If $1.00029 = l(1 + 2.9 \times 10^{-5} \times 10)$, the value of l is

- (A) 0.001
- (B) 1
- (C) 0.1×10^2
- (D) 10^{-2}

82. Rohan appeared for the Global Talent Search Examination wherein 4 marks are awarded for every correct answer and 1 mark is deducted for every wrong answer. Rohan attempted all the 60 questions and secured 130 marks. What would have been his score if there was no negative marking ?

- (A) 140
- (B) 152
- (C) 160
- (D) 168

83. Each of the five persons A,B,C,D & E possesses unequal number (<10) of similar items. A, B and C possess 21 items in all, while C, D and E possess 7 items in all. How many items do A and B possess in all?

- (A) 15
- (B) 17
- (C) 18
- (D) Insufficient information

84. It costs Rupee 1 to photocopy a sheet of paper. However 2% discount is allowed on all photocopies done after first 1000 sheets. The discount increases to 5% for all photocopies exceeding 2500 sheets. How much will it cost to copy 5000 sheets of paper ?

- (A) Rs. 4845
- (B) Rs. 4870
- (C) Rs. 4920
- (D) None of the above

85. A contractor employed 100 labours, both male and female. Each female labourer receives Rs.144 as daily wages while each male labourer receives Rs.96 as daily wages. If the contractor distributes Rs.12,480 daily as wages, how many more female labourers did he employ than male labourers ?

- (A) 20
- (B) 25
- (C) 30
- (D) 35

86. A girl counted in the following way on the fingers of her left hand:

She started by calling the thumbs 1, the index finger 2, the middle finger 3, the ring finger 4, the little finger 5 and then reversed direction calling the ring finger 6, the middle finger 7 and so on. She counted upto 1770. She ended counting on which finger?

- (A) Thumb
- (B) Index finger
- (C) Middle finger
- (D) Ring finger

87. The poles of heights 6m and 11m stand vertically on a plane ground. If the distance between their feet is 12m, what is the distance between their tops ?

- (A) 12.8m
- (B) 13m
- (C) 14m
- (D) 15m

88. At the 'Shoot and Win' stall in a fair, X fires 5 shots to Y's 3 but X hits the target only once in three shots while Y hits once in 2 shots. When Y has missed 27 times, X has hit his target?

- (A) 30 times
- (B) 60 times
- (C) 72 times
- (D) 90 times

CS(C)-10/18

C-12

89. For her parents' 50th wedding anniversary celebration Malina decides to buy 50 balloons. Her supplier only sells balloons in bunches of 12 for Rs. 250 and 7 for Rs. 175. Malina buys exactly 50 balloons. What is the total price she pays ?

- (A) Rs. 1042
- (B) Rs. 1100
- (C) Rs. 1175
- (D) Rs. 1225

90. If $-7 \leq x \leq 7$ and $0 \leq y \leq 12$, what is the greatest possible value of $(y-x)$?

- (A) -19
- (B) 5
- (C) 17
- ✓ (D) 19

91. A circular copper wire of radius 7 cm is bent to form a rectangle. If breadth and length of the rectangle are in the ratio of 4 : 7 respectively, what is the breadth of the rectangle ? (in cm.)

- (A) 8 cm.
- (B) 14 cm.
- (C) 10 cm.
- (D) 12 cm.

92. 11111×11111 is equal to

- (A) 111111111
- ✓ (B) 123454321
- (C) 54321321
- (D) 14325321

93. There are five positive observations. Average of the first three observations is 8 and that of the last three observations is 6. If the average of all five observations is 6, what is the third observation ?

- (A) 10
- (B) 8
- (C) 12
- (D) 14

94. A survey shows that 73% of the Indians like apples, whereas 65% like oranges. What percentage of Indians like both apples and oranges ?

- (A) 83%
- (B) 8%
- ✓ (C) 38%
- (D) 35%

95. A man saved Rs. 16,500 in 10 years. In each year after the first year he saved Rs.100 more than he did in the preceding year. How much did he save in the first year ?

- (A) Rs.1200
- (B) Rs.1650
- (C) Rs.1000
- (D) Rs.1020

96. A horse is tied to a post by a rope. If the horse moves along a circular path, always keeping the rope tight and describes 88m when it traces 72° at the centre, then the length of the rope is

- (A) 35m
- (B) 70m
- (C) 17.5m
- (D) 22m

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C-13

CS(C)-10/18

97. What value of m for which two roots of the quadratic equation $4x^2 + 4(3m-1)x + (m+7) = 0$ are reciprocal to each other?

- (A) -7
- (B) $\frac{7}{4}$
- (C) -3
- (D) $\frac{1}{3}$

98. Present price of a machine is Rs. p and if price of the machine increases by $2r\%$ in each year, the price of machine will be after n year —

- (A) Rs. $p\left(1 + \frac{r}{100}\right)^n$
- ✓ (B) Rs. $p\left(1 + \frac{r}{50}\right)^n$
- (C) Rs. $p\left(1 + \frac{r}{100}\right)^{2n}$
- (D) Rs. $p\left(1 - \frac{r}{100}\right)^n$

99. Ramen deposits Rs. 100 on the first day of every month in a monthly savings scheme. In this way, he has deposited money for 1 year. If the rate of simple interest is 6% per annum ; then the amount he will get at the end of the year is

- (A) Rs. 1236
- (B) Rs. 1239
- (C) Rs. 1272
- (D) Rs. 1260

100. If $x = 2 + \sqrt{3}$ the value of $x + \frac{1}{x}$ is

- (A) 2
- (B) $2\sqrt{3}$
- ✓ (C) 4
- (D) $2 - \sqrt{3}$

101. CIRCLE is related to RICELC in the same way as SQUARE is related to

- (A) QSUERA
- (B) QUSERA
- (C) UQSAER
- ✓ (D) UQSERA

102. Choose out the odd one:

- (A) Skull
- (B) Spine
- (C) Femur
- ✓ (D) Tendons

103. In a certain code language, RUSTICATE is written as QTTUIDBSD. How would STATISTIC be written in that code?

- (A) RSBUTUHB
- ✓ (B) RSBUITUHB
- (C) RSBUIRSJD
- (D) TUBUITUMB

104. In a code language, TUTORIAL is written as DODNGLCF and DANCE is written as YCJMZ, how can EDUCATION be written in that code?

- (A) ZYMODCLNJ
- ✓ (B) ZYOMCDLNJ
- (C) ZYOMDCLNJ
- (D) ZYOTNLCMD

105. In a certain code, RAIN is written as 8\$%6 and MORE is written as 7#8@. How is REMAIN written in that code?

- (A) #@7\$%6
- (B) #@&\$%6
- (C) 7@#\$%6
- ✓ (D) 8@7\$%6

[Please Turn Over]

CS(C)-10/18

C-14

106. P, Q, R, S and T are sitting around a circular table. R is to the right of P and is second to the left of S. T is not between P and S. Who is second to the left of R?

- (A) Q
(B) S
(C) T
(D) None of them

107. Two buses start from the opposite points of a main road, 150 km apart. The first bus runs for 25 km and takes a right turn and then runs for 15 km. It then turns left and runs for another 25 km and takes the direction back to reach the main road. In the meantime, due to a minor breakdown, the other bus has run only 35 km along the main road. What would be the distance between the two buses at this point?

- (A) 65 km
(B) 75 km
(C) 80 km
(D) 85 km

108. (i) Six flats on a floor in two rows facing North and South are allotted to P, Q, R, S, T and U.

(ii) Q gets a North facing flat and is not next to S.

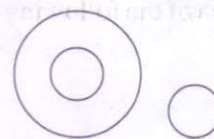
(iii) S and U get diagonally opposite flats.

(iv) R, next to U, gets a South facing flat and T gets a North facing flat.

Which of the following combinations get South facing flats?

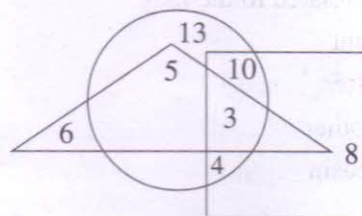
- (A) QTS
(B) UPT
(C) URP
(D) None of the above

109. Which of the following sets is best represented in the given diagram?



- (A) Animals, Insects, Cockroaches. ✗
(B) Animals, Males, Females and Hermaphrodites. ✓
(C) States, Districts, Union Territories. ✗
(D) Country, States, Districts. ✗

110. In the following diagram, the square represents women, triangle represents corporate managers and circle represents MBAs. Which numbered part represents — Women — MBA — Corporate Managers?



- (A) 3
(B) 5
(C) 8
(D) 13

111. If 'white' is called 'blue', 'blue' is called 'red', 'red' is called 'yellow', 'yellow' is called 'green', 'green' is called 'black', 'black' is called 'violet' and 'violet' is called 'orange', what would be the colour of human blood?

- (A) Red
(B) Green
(C) Yellow ✓
(D) Violet

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C-15

CS(C)-10/18

112. In a certain code language '617' means 'sweet and hot', '735' means 'coffee is sweet' and '263' means 'tea is hot'. Which of the following would mean 'coffee is hot'?

- (A) 731
- ☒ (B) 536
- (C) 367
- (D) 753

113. Pointing to a lady in the photograph, Shaloo said, "Her son's father is the son-in-law of my mother." How is Shaloo related to the lady?

- (A) Aunt
- ☒ (B) Sister
- (C) Mother
- (D) Cousin

114. Six members of a family namely A, B, C, D, E, F are travelling together. B is the son of C but C is not the mother of B. A and C are married couple. E is the brother of C. D is the daughter of A. F is the brother of B. How many male members are there in the family?

- (A) 2
- ☒ (B) 3
- (C) 4
- (D) 1

115. (i) B and E are good in Dramatics and Computer Science.

(ii) A and B are good in Computer Science and Physics.

(iii) A, D and C are good in Physics and History.

(iv) C and A are good in Physics and Mathematics.

(v) D and E are good in History and Dramatics.

Who is good in Physics, History and Dramatics?

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

116. How many such 5s are there in the following number sequence each of which is immediately preceded by 3 or 4 but not immediately followed by 8 or 9?

3 5 9 5 4 5 5 3 5 8 4 5 6
7 3 5 7 5 5 4 5 2 3 5 1 0

- (A) None
- (B) Three
- (C) Four
- ☒ (D) Five

117. If it is possible to form a number with the second, the fifth and the eighth digits of the number 31549786, which is the perfect square of a two digit even number, which of the following will be the second digit of that even number?

- (A) 1
- (B) 4
- ☒ (C) 6
- (D) None of the above

[Please Turn Over]

CS(C)-10/18

C-16

118. Rohan ranks seventh from the top and twenty sixth from the bottom in a class. How many students are there in the class?

- (A) 31
☒ (B) 32
 (C) 33
 (D) 34

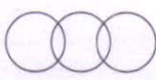


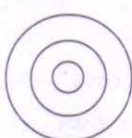
119. If 30th January 2003 was Thursday, what was the day on 2nd March, 2003?

- (A) Tuesday
 (B) Thursday
 (C) Saturday
☒ (D) Sunday

120. If $20 - 10$ means 200, $8 \div 4$ means 12, 6×2 means 4, then

- $100 - 10 \times 1000 \div 1000 + 100 \times 10 = ?$
 (A) 0
 (B) 20
☒ (C) 1090
 (D) 1900

121. Which of the following diagram indicates the best relation Tiger, Four-footed and Elephant?

- (A) 
 (B) 
☒ (C) 
 (D) 

122. If the letters in the word POWERFUL are rearranged as they appear in the English alphabets, the position of how many letters will remain unchanged after the rearrangement?

- (A) None
☒ (B) One
 (C) Two
 (D) Three

123. Select the Combination of numbers so that the letters arranged accordingly will form a meaningful word:

- | | | | | | | | |
|---|---|---|---|---|---|---|---|
| P | N | O | A | C | L | M | I |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
- (A) 2, 7, 8, 6, 4, 3, 1, 5
 (B) 4, 7, 5, 2, 6, 8, 1, 3
 (C) 5, 3, 7, 1, 6, 4, 8, 2
 (D) 7, 1, 8, 5, 6, 2, 4, 3

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

MANUSCRIPT

- (A) PRIMUS
 (B) SMART
 (C) RUSTIC
☒ (D) MASTER

125. S * 4 M @ K % 9 + A L \$ R 3 U 5 H & # Z V 2 Ω W 7 Q X 6 t F G £

If all the symbols are dropped from the arrangement, then which will be 12th element from the right end of the given arrangement?

- (A) 5
 (B) R
 (C) U
☒ (D) H

Complete the matrix (126, 127):

126.

↑↑	↑↓	↓↑
↑→	↑←	↓→
↑↓	?	↓↓

↑↑	↓↑	↑↓	↑→
----	----	----	----

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

127.

.	.
.	?

.	.	.	.
---	---	---	---

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

128. Four different positions of the same dice are shown below. Find the number on the face opposite the face showing 4?



(i)



(ii)



(iii)



(iv)

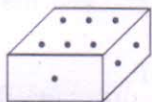
(A) 6

(B) 5

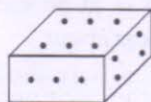
(C) 2

(D) 1

129. Two positions of a block are shown below:



(i)



(ii)

When six is at the bottom, what number will be at the top?

(A) 1

(B) 2

(C) 4

(D) 5

130. Which term of the series 5, 8, 11, 14, is 320?

(A) 104th

(B) 105th

(C) 106th

(D) 64th

131. A is 3 years younger than C but one year older than D. D is one year older than B but 4 years younger than C. C is 15 years old. What is the age of B in years?

(A) 10

(B) 11

(C) 12

(D) 13

132. A girl counted in the following way on the fingers of her left hand: She started by calling the thumb 1, the index finger 2, middle finger 3, ring finger 4, little finger 5 and then reversed direction calling the ring finger 6, middle finger 7 and so on. She counted upto 1994. She ended counting on which finger?

(A) Thumb

(B) Index finger

(C) Middle finger

(D) Ring finger

133. By logic which of the action follows from the statement:

Youngsters are often found staring at obscene posters.

Courses of Action:

(i) Youngsters should be punished and penalised if they are found doing so.

(ii) Any display of such material should be banned.

Options:

(A) Only (i) follows

(B) Only (ii) follows

(C) Neither (i) nor (ii) follows

(D) Action (ii) partially follows

CS(C)-10/18

C-18

134. It is seen that children of successful and well-to-do parents do not perform well in studies. Which one, the following alternatives is the reason behind it?

- ☒ (A) Parents are unable to give enough time and attention to their children.
- ☒ (B) For ample scope of enjoying electronics media for time passing.
- (C) For attending of and on social parties.
- (D) For their good financial position.

135. Choose the odd one out:

- (A) Shehnai
- (B) Bagpipe
- (C) Flute
- ☒ (D) Sitar

136. Choose the word which is different from the rest:

- (A) Tall
- (B) Huge
- (C) Thin
- ☒ (D) Sharp

Decide which of the courses of action logically follow(s). (Q. 137–139)

- (A) only I follows
- (B) only II follows
- (C) either I or II follows
- (D) both I and II follows

137. *Statement* : India has been continuously experiencing military threats from its neighbouring countries.

Courses of action :

- I. India should engage into an all out war to stop the nagging threats.
- II. India should get the neighbours into a serious dialogue to reduce the tension at its borders.

138. *Statement* : There has been large number of cases of internet hacking in the recent months creating panic among the internet users:

Courses of action :

- I. The government machinery should make an all out effort to nab those who are responsible and put them behind bars.
- II. The internet users should be advised to stay away from using internet till the culprits are caught.

(A)

139. *Statement* : The Officer In-charge of a Company had a hunch that some money was missing from the safe:

Courses of action :

- I. He should get it recounted with the help of the staff and check it with the balance sheet.
- II. He should inform the police.

(D)

Directions (Questions 140–144): Study the given information carefully and answer the questions that follow:

- (i) A, B, C, D, E, F and G are sitting on a wall and all of them are facing east.
- (ii) C is on the immediate right of D.
- (iii) B is at an extreme end and has E as his neighbour.
- (iv) G is between E and F.
- (v) D is sitting third from the south end.

140. Immediately between which of the following pairs of people is D sitting?

- (A) AC
- (B) AF
- (C) CE
- ☒ (D) CF

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CS(C)-10/18

141. Which of the conditions (i) to (v) given above is not required to find out the place in which A is sitting?

- (A) (i)
- (B) (ii)
- (C) (iii)
- ✓ (D) All are required

142. Who is sitting to the right of E?

- (A) A
- (B) C
- (C) D
- ✓ (D) G

143. Which of the following pairs of people are sitting at the extreme ends?

- ✓ (A) AB
- (B) AE
- (C) CB
- (D) FB

144. Name the person who should change place with C such that he gets the third place from the north end.

- (A) E
- (B) F
- ✓ (C) G
- (D) D

145. Among four friends A, B, P and Q (each one of them earns a different amount), who earns the most?

- (I) P earns more than A but less than both B and Q.
- (II) B earns more than P but less than Q. A does not earn the most.

- (A) The data in statement I alone are sufficient to answer the question while the data in statement II are not sufficient to answer the question.
- (B) The data in both statements I and II together are necessary to answer the question.
- (C) The data in both statements I and II together are not sufficient to answer the question.
- ✓ (D) The data in statement II alone are sufficient to answer the question while the data in statement I are not sufficient to answer the question.

Directions: In each of the questions, given below (Q. 146–150), there are two statements labelled as Assertion (A) and Reason (R).

Mark your answer as per the codes provided below:

- (A) Both A and R are true and R is the correct explanation of A.
- ✓ (B) Both A and R are true but R is not the correct explanation of A.
- (C) A is true but R is false.
- (D) A is false but R is true.

146. Assertion (A) : Graphite is slippery and is used as a lubricant.

Reason (R) : Graphite has free electrons.

147. Assertion (A) : The use of chlorofluorocarbons is banned throughout the world now a days.

Reason (R) : These chemicals cause skin cancer.

[Please Turn Over]

CS(C)-10/18

C-20

148. Assertion (A) : Indus Valley people knew the art of navigation.

Reason (R) : Indus Valley seals indicate prevalence of overseas trade.

(A)

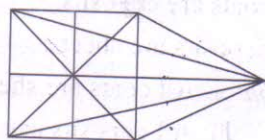
149. Assertion (A) : The pouring of kerosene oil on stagnant pools helps to eradicate malaria.

Reason (R) : The kerosene oil is poisonous for the mosquitoes.

150. Assertion (A) : When lightning strikes, the sound is heard a little after the flash is seen.

Reason (R) : The velocity of light is greater than that of the sound.

151. What is the number of straight lines in the following figure?



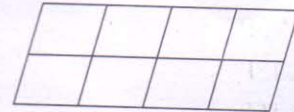
(A) 10

(B) 12

(C) 13

(D) 17

152. How many parallelograms are there in the following figure?



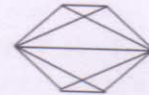
(A) 20

(B) 24

(C) 28

(D) 30

Analyse the following figure and answer the given questions (153, 154):



153. Find the number of quadrilaterals in the given figure?

(A) 6

(B) 7

(C) 9

(D) 11

154. What is the number of pentagons in the given figure?

(A) 2

(B) 3

(C) 4

(D) 6

Directions: In each of the following questions, you are given a combination of alphabets and/or numbers followed by four alternatives (A), (B), (C) and (D). Choose the alternative which most closely resembles the water image of the given combination (Q. 155, 156):

155. DISC

(A) CSID

(B) 22IC

(C) DI2C

(D) DISC

C-21

CS(C)-10/18

156. A1M3b

- (A) V1W3P
(B) V1W3P
✓ (C) V1W3P
(D) V1W3P

Directions: In each of the following questions, you are given a combination of alphabets and/or numbers followed by four alternatives (A), (B), (C) and (D). Choose the alternative which most closely resembles the mirror image of the given combination (Q. 157–159):

157. WHITE

- (A) ELIHW
(B) ETIHW
✓ (C) ETIHW
(D) ETIHW

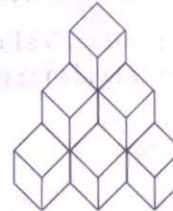
158. A clock seen through a mirror shows quarter past three. What is the correct time shown by the clock?

- (A) 9 : 45
(B) 9 : 15
✓ (C) 8 : 45
(D) 3 : 15

159. 1965 INDOPAK

- (A) KAPAK 1965
(B) 29910DNIKAP
(C) KAPAK 1965
✓ (D) KAPAK 1965

160. Count the number of cubes in the given figure:



- (A) 6
(B) 8
✓ (C) 10
(D) 12

161. Logical reasoning

- a. Some women are smart. ✓
b. All smart women are good looking. ✓
c. Monika is a woman. ✓
d. Monika is smart. ✓
e. Monika is good looking. ✓
f. All women are good looking.

- (A) afc
(B) bde
(C) dcb
(D) fbe

162. Statements:

No layer is a coat.

All coats are deposits.

All deposits are sheets.

Conclusion: I. All coats are sheets. ✓

II. All deposits can never be layer. ✓

- (A) Only conclusion I is true
(B) Only conclusion II is true
(C) Either conclusion I or II is true
✓ (D) Both conclusions I and II are true

[Please Turn Over]

CS(C)-10/18

C-22

163. Arrange the following in a logical order:

1. Euphoria
 2. Happiness
 3. Ambivalence
 4. Ecstasy
 5. Pleasure
- (A) 1, 4, 2, 5, 3
(B) 2, 1, 3, 4, 5
(C) 3, 2, 5, 1, 4
(D) 4, 1, 3, 2, 5

164. Which would be the proper order of the following in ascending order?

1. Trillion
 2. Thousand
 3. Billion
 4. Hundred
 5. Million
- (A) 1, 2, 4, 3, 5
(B) 1, 5, 3, 2, 4
(C) 4, 2, 3, 5, 1
(D) 4, 2, 5, 3, 1

165. In a certain office, $\frac{1}{3}$ of the workers are women, $\frac{1}{2}$ of the women are married and $\frac{1}{3}$ of the married women have children. If $\frac{3}{4}$ of the men are married and $\frac{2}{3}$ of the married men have children, what part of the workers are without children?

- (A) $\frac{5}{18}$
(B) $\frac{4}{9}$
(C) $\frac{11}{18}$
(D) $\frac{17}{36}$

166. The age of a father is twice that of the elder son. Ten years hence the age of the father will be three times that of the younger son. If the difference of ages of the two sons is 15 years, the age of the father is

- (A) 50 years
(B) 55 years
(C) 60 years
(D) 70 years

Find the missing character.

167.

18	24	32
12	14	16
3	?	4
72	112	128

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

168.

20, 160	4
?	4
480	8
96	24

- (A) 860
(B) 1140
(C) 2880
(D) 3240

169. In a group of persons travelling in a bus, 6 persons can speak French, 15 can speak Spanish and 6 can speak English. In that group, none can speak any other language. If 2 persons in the group can speak two languages and one person can speak all the three languages, then how many persons are there in the group?

- (A) 21
- (B) 22
- (C) 23
- (D) 24

170. If $A + B > C + D$ and $B + C > A + D$, then it is definite that

- (A) $D > B$
- (B) $C > D$
- (C) $A > D$
- ☒ (D) $B > D$

Find the missing character:

171.

7B	5C	6B
3C	9B	19A
15A	17A	?

- (A) 10C
- (B) 12C
- (C) 14B
- (D) 16C

172. If in an examination hall, you find that the question paper is too tough to be answered satisfactorily by you, the best thing to do for you is to

- (A) tell the examiner that the question are out of course.
- (B) provoke the candidates to walk out of the examination hall.
- (C) try to know something from your neighbour.
- (D) try to solve the questions as much as you know with a cool head.

173. A song always has

- (A) Chorus
- (B) Musician
- (C) Tymbal
- ☒ (D) Word

174. A chocolate always has

- ☒ (A) Wrapper
- ☒ (B) Cocoa
- (C) Nuts
- (D) Milk

175. Find the correct group of signs to solve the equation.

$$24 * 16 * 8 * 32$$

- (A) $\div - =$
- (B) $- + =$
- (C) $\times \div =$
- ☒ (D) $+ - =$

176. Which one of the following is correct?

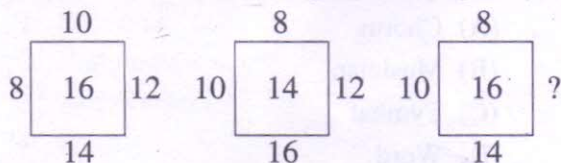
- (A) $-\frac{3}{4} < -\frac{7}{16} < \frac{5}{-12} < \frac{9}{-24}$
- (B) $\frac{9}{-24} < \frac{5}{-12} < -\frac{7}{16} < -\frac{3}{4}$
- (C) $-\frac{7}{16} < \frac{9}{-24} < \frac{5}{-12} < -\frac{3}{4}$
- (D) $\frac{5}{-12} < -\frac{3}{4} < -\frac{7}{16} < \frac{9}{-24}$

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CS(C)-10/18

C-24

177. Find the number at the sign of interrogation:



- (A) 14
☒ (B) 12
 (C) 16
 (D) 9

178. If Byron is 74, then Shelly is

- ☒ (A) 81
 (B) 80
 (C) 78
 (D) 79

179. The missing term in the following series 1, 5, 11, 19, 29, _____, 55 is

- ☒ (A) 41
☒ (B) 31
 (C) 40
 (D) 51

180. A tree 6m tall, cast a 4m long shadow. At the same time a flag pole cast a 50m long shadow. How long is the flag pole?

- (A) 50 m
☒ (B) 75 m
 (C) $33\frac{1}{3}$ m
 (D) None of the above

181. Major is related to Lieutenant in the same way as Squadron Leader is related to

- (A) Group Captain
☒ (B) Flying Attendant
 (C) Flying Officer
 (D) Pilot Officer

182. Select the lettered pair that has the same relationship as the original pair of words printed in bold.

Calligraphy : Writing

- (A) Music : Song
☒ (B) Lyric : Poem
 (C) Drama : Prose
 (D) Chapter : Stanza

183. If $\sqrt{15} = 3.8729$, then the value of $\frac{\sqrt{5}+\sqrt{3}}{\sqrt{5}-\sqrt{3}}$ is

- ☒ (A) 7.8729
 (B) 7.7829
 (C) 7.2987
 (D) 7.8279

184. Starting from a point, Kalidas walked 12 m North, he turned right and walked 10 m, he again turned right and walked 12 m, then he turned left and walked 5m. How far is he now and in which direction from the starting point?

- (A) 27 m towards East
 (B) 5 m towards East
 (C) 10 m towards West
☒ (D) 15 m towards East

185. Propositions:

- Some garnets are stones.
- Some stones are diamond.
- No diamond is a gem.

Conclusions:

- (i) Some gems are pearls.
- (ii) Some gems are diamond.
- (iii) No gem is a diamond. ✓
- (iv) No gem is a garnet.

Options:

- (A) Only (i) and (ii) follows
- (B) Only (iii) and (iv) follows
- (C) Only either (i) or (iv) and either (ii) or (iii) follows
- (D) Only (iii) and either (i) or (iv) follows

186. 4, 8, 28, 80, 244, ?

- (A) 278
- (B) 428
- (C) 628
- (D) 728

187. Which term comes next in the series:

YEB, WFD, UHG, SKI, ?

- (A) QOL
- (B) QGL
- (C) TOL
- (D) QNL

188. Find the next term in the alpha - numeric series:

Z1A, X2D, V6G, T21J, R88M, P445P, ?

- (A) N2676S
- (B) N2676T
- (C) T2670N
- (D) T2676N

189. Moon : Satellite :: Earth : ?

- (A) Sun
- ✓ (B) Planet
- (C) Solar System
- (D) Asteroid

190. Which of the following is the same as Rabbit, Rat, Mole?

- (A) Mongoose
- (B) Frog
- (C) Earthworm
- (D) Ant

191. Find the correct alternative having the same relationship.

Pink : Red : White

- (A) Orange : Yellow : Black
- ✓ (B) Green : Blue : Yellow
- (C) Yellow : Red : Green
- (D) Brown : Black : Blue

192. BLOCKED : YOLXPVW :: ? : OZFMXS

- (A) LAUNCH
- (B) DEBATE
- (C) LABOUR
- (D) RESULT

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Directions (Questions 193 to 200): In each of the following questions, there is some relationship between the two terms to the left of :: and the same relationship holds between the two terms to its right. Also, in each question, one term either to the right of :: or to the left of it is missing. This term is given as one of the alternatives given below each question. Find out the term.

193. Money : Misappropriation :: Writing : ?

- (A) Deception
- (B) Mistake
- (C) Plagiarism
- (D) Theft

194. B : 16 :: D : ?

- (A) 120
- (B) 150
- (C) 200
- (D) 256

195. C : 16 :: F : ?

- (A) 30
- (B) 40
- (C) 49
- (D) 50

196. Kidney : Nephron :: Central Nervous System : ?

- (A) Cerebrum
- (B) Brain
- ✓ (C) Neurons
- (D) Spinal Cord

197. $\frac{T}{J} : 2 :: \frac{X}{H} : ?$

- (A) 2
- (B) 3
- (C) $\frac{23}{7}$
- (D) 4

198. MK : $\frac{169}{121} :: JH : ?$

- (A) $\frac{100}{64}$
- (B) $\frac{100}{81}$
- (C) $\frac{64}{120}$
- (D) $\frac{81}{100}$

199. DE : 10 :: HI : ?

- (A) 17
- ✓ (B) 20
- (C) 36
- (D) 46

200. M×N : 13×14 :: F×R : ?

- (A) 7×19
- (B) 5×17
- (C) 14×15
- ✓ (D) 6×18