Government of West Bengal

West Bengal State Haj Committee
(WBCS Coaching & Guidance Cell)
Haj Tower-cum-Empowerment Centre
VIP Road, Kaikhali, Kolkata-700 052

West Bengal Civil Service Mains Examinations'22
GENERAL STUDIES-IV MOCK TEST

Mock Test Set-6
31/12/2022
Time
3:00 PM to 6:00 PM
Marks : 200

1. A family has two children. find the probability that both the children are girls given that at least one of them is a girl?
A. 1/4   B. 2/3   C. 1/3   D. 1/4

2. Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?
A. 1/2   B. 2/5   C. 8/15   D. 9/20

3. A man has Rs. 480 in the denominations of one-rupee notes, five-rupee notes and ten-rupee notes. The number of notes of each denomination is equal. What is the total number of notes that he has?
A. 45   B. 60   C. 75   D. 90

4. $1344 \div 14 \div 4 \times 34 - 35\%$ of $540 - 45\%$ of $1320 = x$
A. 46   B. 87   C. 67   D. 33

5. The price of 2 sarees and 4 shirts is Rs. 1600. With the same money one can buy 1 saree and 6 shirts. If one wants to buy 12 shirts, how much shall he have to pay?
A. Rs. 1200   B. Rs. 2400   C. Rs. 4800   D. Cannot be determined

6. Which one of the following is true for $0° < \theta < 90°$?
A. $\cos\theta \le \cos2\theta$ B. $\cos\theta < \cos2\theta$ C. $\cos\theta > \cos2\theta$ D. $\cos\theta \ge \cos2\theta$

7. The angles of a triangle are $(x + 5)°$, $(2x - 3)°$ and $(3x + 4)°$. Then the value of x is?
A. 30   B. 31   C. 29   D. 28

8. Rs. 2100 is lent at compound interest of 5% per annum for 2 years. Find the amount after two years.
A. Rs. 2300   B. Rs. 2315.25   C. Rs. 2310   D. Rs. 2320

9. What is the difference between the simple interest on a principal of Rs. 500 being calculated at 5% per annum for 3 years and 4% per annum for 4 years?
A. Rs. 5   B. Rs. 10   C. Rs. 20   D. Rs. 40

10. Find the compound interest on Rs. 1000 at the rate of 20% per annum for 18 month when interest is compounded half yearly.
A. Rs. 331   B. Rs. 1331   C. Rs. 320   D. Rs. 325

11. Tushar borrowed a sum of Rs. 12000 at 15% per annum from a money - lender on 13th January, 1987 and return the amount on 8th June, 1987 to clear his debt. Then the amount paid by Tushar to the money - lender to clear his debt was = ?
A. Rs. 15000   B. Rs. 11394   C. Rs. 12720   D. Rs. 13650

12. A sum of Rs. 18750 is left by a will by a father to be divided between the two sons, 12 and 14 years of age, so that when they attain maturity at 18, the amount (principal + interest) received by each at 5 percent simple interest will be the same. Find the sum alloted at present to each son.
A. Rs. 9500, Rs. 9250   B. Rs. 8000, Rs. 1750   C. Rs. 9000, Rs. 9750   D. None of these

13. The average salary of all the workers in a workshop is Rs. 8,000. The average salary of 7 technicians is Rs. 12,000 and the average salary of the rest is Rs. 6,000. The total number of workers in the workshop is:
A. 20   B. 21   C. 22   D. 23

14. A grocer has a sale of Rs. 6435, Rs. 6927, Rs. 6855, Rs. 7230 and Rs. 6562 for 5 consecutive months. How much sale must he have in the sixth month so that he gets an average sale of Rs. 6500?
A. Rs. 4991   B. Rs. 5991   C. Rs. 6001   D. Rs. 6991

15. The average of 20 numbers is zero. Of them, at the most, how many may be greater than zero?
A. 0   B. 1   C. 10   D. 19

16. The average age of husband, wife and their child 3 years ago was 27 years and that of wife and the child 5 years ago was 20 years. The present age of the husband is:
A. 35 years   B. 40 years   C. 50 years   D. None of these

17. The average salary of all the workers in a workshop is Rs. 8000. The average salary of 7 technicians is Rs. 12000 and the average salary of the rest is Rs. 6000. The total number of workers in the workshop is-
A. 20   B. 21   C. 22   D. 23

18. A right angled isosceles triangle is inscribed in a semicircle of radius 7 cm . The area enclosed by the semicircle but exterior to the triangle is
A. 14 sq cm   B. 28 sq cm   C. 44 sq cm   D. 68 sq cm

19. If each side of a square is increased by 25%, find the percentage change in its area.
A. 62.25   B. 59.52   C. 58.75   D. 56.25

20. A 5 cubic centimeter cube is painted on all its side. If it is sliced into 1 cubic centimeter cubes, how many 1 cubic centimeter cubes will have exactly one of their sides painted?
A. 9   B. 61   C. 98   D. 54

21. A cube of side one meter length is cut into small cubes of side 10 cm each. How many such small cubes can be obtained?
A. 10   B. 100   C. 1000   D. 10000

22. A car covers its journey at the speed of 80km/hr in 10hours. If the same distance is to be covered in 4 hours, by how much the speed of car will have to increase?
A. 40km/hr   B. 60km/hr   C. 90km/hr   D. 120km/hr

23. Two trains starting at the same time from 2 stations 200 km apart and going in opposite direction cross each other at a distance of 110 km from one of the stations. What is the ratio of their speeds?
A.11:9   B. 7:3   C. 18:4   D. None of these

24. Walking 6/7th of his usual speed, a man is 12 minutes too late. What is the usual time taken by him to cover that distance?
A. 1 hr 42 min   B. 1 hr   C. 2 hr   D. 1 hr 12 min

25. The average of 25 observations is 13. It was later found that an observation 73 was wrongly entered as 48. The new average is -
A. 12.6   B. 14   C. 15   D. 13.8

26. x is five digit number. The digit in ten thousands place is 1. the number formed by its digits in units and ten places is divisible by 4. The sum of all the digits is divisible by 3. If 5 and 7 also divide x, then x will be.
A. 14020   B. 12060   C. 10020   D. 10080

27. To write all the page numbers of a book, exactly 136 times digit 1 has been used. Find the number of pages in the book.
A. 190   B. 195   C. 210   D. 220

28. A motorboat covers 25 km upstream and 39 km downstream by travelling at the same speed for 8 hours. On another occasion with the same speed, it covers 35 km upstream and 52 km downstream in 11 hours. What is the speed of the stream?
A. 5 km/hr   B. 4 km/hr   C. 3 km/hr   D. 2 km/hr

29. Raj invested Rs 76000 in a business. After few months Monty joined him and invests Rs 57000. At the end of the year, both of them share the profits at the ratio of 2:1. After how many months Monty joined Raj?
A. 4 Months   B. 7 Months   C. 8 Months   D. 12 Months

30. Varun, Sachin and Kowshi, enter into a partnership. Varun puts Rs. 500 for 3 months. Sachin Rs. 650 for 8 months and Kowshik Rs. 300 for 11 months. They gain Rs., 840. Find the share of Kowshik.
A. Rs. 260.20   B. Rs. 126   C. Rs. 277.20   D. Rs. 300.80

31. Anil, Mukesh and Ritesh started a business each investing Rs.20,000. After 4 months Anil withdraws Rs.6000, Mukesh withdraws Rs.8000, Ritesh invests Rs.6000 more At the end of the years, a total profit was Rs.65600. Find the share of Ritesh.
A. Rs. 20000   B. Rs. 28800   C. Rs. 17600   D. Rs. 19200

32. The sides of a rectangle are in the ratio 4:3 and its area is 972sq.m find the perimeter of the rectangle?
A. 120m   B. 122m   C. 124m   D. 126m

33. A metallic sheet is of rectangular shape with dimensions 48 m x 36 m. From each of its corners, a square is cut off so as to make an open box. If the length of the square is 8 m, the volume of the box (in m3) is:
A. 4830   B. 5120   C. 6420   D. 8960

34. In two triangle, the ratio of the areas is 4:3 and that of their heights is 3:4 the ratio of their bases is
A. 16:9   B. 9:16   C. 9:12   D. 16:12

35. The salaries of A, B and C are in the ratio 1 : 3 : 4. If the salaries are increased by 5%, 10% and 15% respectively, then the increased salaries will be in the ratio
A. 20 : 66 : 95   B. 21 : 66 : 96   C. 21 : 66 : 92   D. 19 : 66 : 92

36. A cat leaps 5 leaps for every 4 leaps of a dog, but 3 leaps of the dog are equal to 4 leaps of the cat. What is the ratio of the speed of the cat to that of the dog?
A. 11 : 15   B. 15 : 11   C. 16 : 15   D. 15 : 16

37. A dishonest milk man mixed 1 liter of water for every 3 liters of milk and thus made up 36 liters of milk. If he now adds 15 liters of milk to mixture, find the ratio of milk and water in the new mixture:
A. 12 : 5   B. 14 : 3   C. 7 : 2   D. 9 : 4

38. Find the third proportional to 9 and 12?
A. 9   B. 108   C. 16   D. 48

39. In a bag, there are a certain number of toy-blocks with alphabets A, B, C and D written on them. The ratio of blocks A:B:C:D is in the ratio 4:7:3:1. If the number of 'A' blocks is 50 more than the number of 'C' blocks, what is the number of 'B' blocks?
A. 650   B. 480   C. 578   D. 350

40. Rs. 120 are divided among A, B, C such that A's share is Rs. 20 more than B's and Rs. 20 less than C's. What is B's share
A. Rs 10   B. Rs 20   C. Rs 24   D. Rs 28

41. Three taps A, B and C together can fill an empty cistern in 10 minutes. The tap A alone can fill it in 30 minutes and the tap B alone in 40 minutes. How long will the tap C alone take to fill it?
A. 16 minutes   B. 24 minutes   C. 32 minutes   D. 40 minutes

42. Two pipes A and B can fill a tank in 36 min. and 45 min. respectively. Another pipe C can empty the tank in 30 min. First A and B are opened. After 7 minutes, C is also opened. The tank filled up in:
A. 39 min.   B. 46 min   C. 40 min.   D. 45 min.

43. A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs. 3200. With the help of C, they completed the work in 3 days. How much is to be paid to C?
A. Rs. 375   B. Rs. 400   C. Rs. 600   D. Rs. 800

44. The greatest number which on dividing 1657 and 2037 leaves remainders 6 and 5 respectively, is:
A. 127   B. 305   C. 235   D. 123

45. The least number, which when divided by 12, 15, 20 and 54 leaves in each case a remainder of 8 is:
A. 544   B. 548   C. 504   D. 536

46. A, B and C start at the same time in the same direction to run around a circular stadium. A completes a round in 252 seconds, B in 308 seconds and c in 198 seconds, all starting at the same point.
A. 26 minutes and 18 seconds   B. 42 minutes and 36 seconds
C. 45 minutes   D. 46 minutes and 12 seconds

47. A, B and C completed a work costing Rs. 1800. A worked for 6 days, B for 4 days and C for 9 days. If their daily wages are in the ratio of 5 : 6 : 4, how much amount will be received by A ?
A. Rs. 600   B. Rs. 750   C. Rs. 800   D. Rs. 900

48. If the expenditure of gas on burning 6 burners for 6 hours a day for 8 days is Rs. 450, then how many burners can be used for 10 days at 5 hours a day for Rs. 625 ?
A. 12   B. 16   C. 4   D. 8

49. A man's speed with the current is 15 km/hr and the speed of the current is 2.5 km/hr. The man's speed against the current is:
A. 8.5 km/hr   B. 10 km/hr   C. 12.5 km/hr   D. 9 km/hr

50. Time taken by boat to travel a distance upstream is twice the time taken by it to travel the same distance downstream. If the boat travels 50 km in 4 hours 10 minutes in still water, then what is the speed of the boat downstream?
A. 8 km/hr   B. 12 km/hr   C. 15 km/hr   D. 16 km/hr

51. In a 800 m race, A gives some start to B and this makes the length of race for B 725 m. What start does B get from A?
A. 22 m   B. 35 m   C. 45 m   D. 75 m

52. In a game of 100 points, A scores 100 points while B scores only 65 points. In this game, how much points can A give to B?
A. 45   B. 35   C. 25   D. 55

53. In 1 km race, A beats B by 18 m or 9 s. Find the A' s time over the course.
A. 391 s   B. 591 s   C. 491 s   D. 500 s

54. The greatest number by which 2300 and 3500 are divided leaving the remainders of 32 and 56 respectively, is
A. 136   B. 168   C. 42   D. 84

55. There are 24 peaches, 36 apricots and 60 bananas and they have to be arranged in several rows in such a way that every row contains the same number of fruits of only one type. What is the minimum number of rows required for this to happen ?
A. 12   B. 9   C. 10   D. 6

56. Three tankers contain 403 litres, 434 litres, 465 litres of diesel respectively. Then the maximum capacity of a container that can measure the diesel of the three containers exact number of times is
A. 31 litres   B. 62 litres   C. 41 litres   D. 84 litres

57. A stationer buys diaries at 75 rupees per dozen and sells them at 15 rupees per piece. What is the profit?
A. 75   B. 100   C. 105   D. 110

58. A dealer buys a washing machine. listed at Rs. 10000 and gets 10% and 20% successive discounts. He spends 10% of his CP on transport.At what price (in rupees) should he sell the washing machine to earn a profit of 10% ?
A. 8722   B. 7892   C. 8712   D. 8840

59. At what price must Kantilal sell a mixture of 80 kg sugar at Rs. 6.75 per kg with 120 kg at Rs. 8 per kg to gain 20% ?
A. Rs. 7.50 per kg   B. Rs. 8.20 per kg   C. Rs. 8.85 per kg   D. Rs. 8.76 per kg

60. A alone can do a piece of work in 8 days while B alone can do it in 10 days. If they together complete this work and get ₹ 900 as their remuneration, then find the share of both the persons.
A. A = ₹ 800 and B = ₹ 100   B. A = ₹ 500 and B = ₹ 400
C. A = ₹ 600 and B = ₹ 300   D. A = ₹ 300 and B = ₹ 600

61. A, B and C undertake to do a job for ₹ 1110. A can do the job in 12 days, B in 15 days and C in 18 days. What does C get?
A. ₹ 300   B. ₹ 275   C. ₹ 335   D. ₹ 339

62. Marks obtained by an student in 5 subjects are given below 25, 26, 27, 28, 29 in these obtained marks 27 is
A. mode
B. median and mode
C. mean and median
D. both (a) and (c)

63. In a mixture of 75 litres, the ratio of milk to water is 2 : 1. The amount of water to be further added to the mixture so as to make the ratio of the milk to water 1 : 2 will be
A. 45 litres
B. 60 litres
C. 75 litres
D. 80 litres

64. A jar contained a mixture of two liquids A and B in the ratio 4 : 1. When 10 litres of the mixture was taken out and 10 litres of liquid B was poured into the jar, this ratio became 2 : 3. The quantity of liquid A contained in the jar initially was
A. 4 litres
B. 8 litres
C. 16 litres
D. 40 litres

65. The least number, which when divided by 12, 15, 20 and 54 leaves in each case a remainder of 8 is:
A. 544
B. 548
C. 504
D. 536

66. P, Q and R start at the same time in the same direction to run around a circular stadium. P completes a round in 252 seconds, Q in 308 seconds and R in 198 seconds, all starting at the same point. After what time will they again at the starting point?
A. 46 min 12 sec
B. 52 min 36 sec
C. 55 min
D. 58 min 12 sec

67. David gets on the elevator at the 11th floor of a building and rides up at the rate of 57 floors per minute. At the same time, Albert gets on an elevator at the 51st floor of
the same building and rides down at the rate of 63 floors per minute. If they continue travelling at these rates, then at which floor will their paths cross?
A. 19
B. 28
C. 30
D. 37

68. A right angled isosceles triangle is inscribed in a semicircle of radius 7 cm . The area enclosed by the semicircle but exterior to the triangle is
A. 14 sq cm
B. 28 sq cm
C. 44 sq cm
D. 68 sq cm

69. A man walking at the rate of 6km per hour crosses a square field diagonally in 9 seconds the area of the field is
A. 110sq.m
B. 111.5aq.m
C. 112.5sq.m
D. 114sq.m

70. In an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was :
A. 2500
B. 2700
C. 2900
D. 3100

71. If $7^{(x - y)} = 343$ and $7^{(x + y)} = 16807$, what is the value of x?
A. 4
B. 3
C. 2
D. 1

72. Using only 2, 5, 10, 25 and 50 paise coins, what will be the minimum number of coins required to pay exactly 78 paise, 69 paise, and Re. 1.01 to three different persons?
A. 19
B. 20
C. 17
D. 1

73. The number obtained by interchanging the digits of a two-digit number is less than the original number by 63. If the sum of the digits of the number is 11, what is the original number?
A. 29
B. 92
C. 74
D. Cannot be determined

74. One type of liquid contains 25 % of benzene, the other contains 30% of benzene. A can is filled with 6 parts of the first liquid and 4 parts of the second liquid. Find the percentage of benzene in the new mixture.
A. 28 %   B. 25 %   C. 30 %   D. 27%

75. A sum of money amounts to Rs.6690 after 3 years and to Rs.10,035 after 6 years on compound interest.find the sum.
A. 4360   B. 4460   C. 4560   D. 4660

76. The difference between simple interest and compound interest on Rs. 600 for 1 years at 10% per annum, reckoned half yearly is?
A. Nil   B. Rs. 6.60   C. Rs. 4.40   D. Rs. 1.50

77. Mr. Sinha distributes a certain sum of money among his five sons, one daughter and his wife in such a way that each son gets double the amount of his daughter and the wife gets double the amount of each son. If each son gets Rs. 15000, what was the total amount distributed?
A. Rs. 123000   B. Rs. 112500   C. Rs. 138500   D. Rs. 132500

78. In covering a distance of 30 km Amit takes 2 hours more than Suresh, If Amit doubles his speed, he would take 1 hour less than Suresh. Amit's speed is :
A. 5 km/hr   B. 7.5 km/hr   C. 6 Km/hr   D. 6.25 km/hr

79. The ratio of quantity of water in fresh fruits to that of dry fruits is 7 : 2. If 400 kg of dry fruits contain 50 kg of water then find the weight of the water in same fruits when they were fresh?
A. 175 Kg   B. 100 Kg   C. 150 Kg   D. 125 Kg

80. Find the value of $\sin^2 10 + \sin^2 20 + \sin^2 30 + ... + \sin^2 80$.
A. 2   B. 3   C. 1   D. 4

81. In the given figure, triangle ABC is an isosceles triangle such that AB = BC. Find x, y and z if angle CDE is 120°.
A. x = 60°, y = 60°, z = 60°   B. x = 30°, y = 40°, z = 60°
C. x = 40°, y = 60°, z = 60°   D. x = 50°, y = 40°, z = 60°

82. Find the value of 16/√3 (Cos50°Cos10°Cos110°Cos60°)
A. 1   B. 2   C. – 1   D. – 2

83. If the rate of income tax increases by 18%, net income decreases by 2%. What was the rate of income tax?
A. 10   B. 20   C. 15   D. 12

84. A certain sum of money lent out at simple interest amount Rs.1380 in 3 years and Rs. 1500 in 5 years. Find the rate percent per annum.
A. 3%   B. 3.5%   C. 4%   D. 5%

85. In how many years will a sum of money double itself at 12% per annum?
A. 8 yrs. 6 months   B. 6 yrs. 9 months   C. 8 yrs. 4 months   D. 7 yrs. 6 months

86. Two trains is moving in opposite directions at 70 kmph and at 80 kmph. Their lengths are 1.3 km and 0.7 km respectively. The time taken by the slower train to cross the faster train in seconds is:
A. 24 sec   B. 48 sec   C. 76 sec   D. 102 sec

87. The volume of a hollow cube is 216x3. What surface area of the largest sphere which be enclosed in it ?

A. $18\pi x^2$ B. $27\pi x^2$ C. $36\pi x^2$ D. $72\pi x^2$

88. Two medians PS and RT of ΔPQR intersect at G at right angles. If PS = 9 cm and RT = 6 cm, then the length of RS in cm is

A. 10   B. 6   C. 5   D. 3

89. The cordinates of the incentre of the triangle whose sides are 3x – 4y = 0, 5x + 12y = 0 and y – 15 = 0, are

A. (1, 8)   B. (–1, 8)   C. (2, 8)   D. (2, –8)

90. A person takes 8 minutes to type a page. If from 1 : 00 pm to 2 : 00 pm, 1710 pages are to be typed, how many persons should be employed for this job?

A. 207   B. 221   C. 249   D. None of these

Directions (91 - 95): Study the table given below and answer the questions that follow:
Total Number of Employees in different Departments of an Organization and Percentage of Females and Males.

Department	Total No. of Employees	Percentage of Females	Percentage of Males
IT	840	45	55
Accounts	220	35	65
Production	900	23	77
HR	360	65	35
Marketing	450	44	56
Customer Service	540	40	60

91. What is the total number of employees in all the departments together?

A. 3260   B. 3310   C. 3140   D. 3020

92. What is the respective ratio of the number of females in Production department to the number of females in the Marketing department?

A. 22 : 23   B. 35 : 33   C. 23 : 22   D. 33 : 35

93. What is the total number of males in the IT and Customer Service departments together?

A. 687   B. 678   C. 768   D. None of these

94. What is the ratio of the number of females in the HR and Accounts department together to the number of males in the same department together?

A. 311 : 269   B. 268 : 319   C. 269 : 311   D. 319 : 268

95. The total number of employees in the HR department forms approximately what per cent of the total number of employees in the Accounts department?

A. 149%   B. 178%   C. 157%   D. 164%

96. The ratio of the age of a son and father is 1: 4. After 9 years, the ratio will be 2: 5. What is the present age (in years) of the son?

A. 10   B. 8   C. 9   D. 12

97. Ram divided his total property between his two sons. The elder son received 70% of the total property. If the elder son donates Rs. 8500 in charity then the total property remained with him will be 20% more than that of younger son. What was the difference between the total property received by the elder son and that by younger son?

A. Rs. 7500   B. Rs. 12500   C. Rs. 15000   D. None of these

98. A constable was 114 meters behind a thief. A constable walks 21 meters and a thief 15 meters in a minute, then in how much time will the constable catch the thief?
A. 19 minute   B. 17 minute   C. 18 minute   D. 16 minute

99. A sum becomes 5 times of itself in 3 years at compound interest (interest is compounded annually). In how many years will the sum becomes 125 times of itself?
A. 9   B. 6   C. 8   D. 12

100. A mixture contains milk and water in the ratio 5: 1. On adding 4 litres of water, the ratio of milk and water becomes 5: 2. What is the quantity of milk in the original mixture?
A. 40 litre   B. 36 litre   C. 20 litre   D. 24 litre

101. 1, 1, 2, 6, 24, ?, 720
A. 100   B. 104   C. 108   D. 120

102. 3, 15, ?, 63, 99, 143
A. 27   B. 35   C. 45   D. 56

103. If in a certain language, MADRAS is coded as NBESBT, how is BOMBAY coded in that code?
A. CPNCBX   B. CPNCBZ   C. CPOCBZ   D. CQOCBZ

Directions: Study the following information carefully and answer the questions given beside. (Question 104- 108)
Twelve people were seated around a triangular table facing inwards such that three people were seated on each edge and one person on each corner.
Only five people sit between J and I and neither J nor I sits at corners. E who sits at one of the corner is third to the right of I. F, who is second to left of I, is immediate left of D. Only two people sit between F and G, who is immediate neighbor of J. A, B and C were seated in the middle of each edge. Two people sit between K and A, who doesn't sit near I. E is an immediate neighbor to both L and H, who is an immediate neighbor to B.

104. Who among the following sit at the corner?
A. F   B. K   C. H   D. D

105. How many people sit between G and L if counted from left of G?
A. 4   B. 1   C. 2   D. 3

106. Who sits third to the right of K?
A. D   B. C   C. F   D. I

107. Who among the following is immediate neighbor of C?
A.D   B.H   C. F   D. I

108. Find the odd one out.
A. A, G   B.D, B   C. C, D   D. H, I

109. Anaya is 15m to the west of Rithika. Rithika is 20m to the north of Genelia. Genelia is 12m to the east of Diksha. Faizah is 16m to the north of Diksha. If Anaya has to meet Faizah through the shortest distance and then has to meet Genelia from Faizah's point through the shortest distance, then what is the total distance travelled by Anaya?
A. 25m   B. 20m   C.35m   D. 30m

110. Rajesh walked 25 meters towards South. Then he turned to his left and walked 20 meters. He then turned to his left and walked 25 meters. He again turned to his right and walked 15 meters. At what distance is he from the starting point and in which direction?
A. 60 meters-East   B. 35 meters-East   C. 35 meters-North   D. 40 meters-East

Directions: The following are based on the five three-digit numbers given below: (Question 111-
    645   172   843   241   463   571

111. If one is subtracted from each odd number and two is added to each even number then how many numbers thus formed will be divisible by three?
A. None   B. Four   C. One   D. Three

112. What will be the resultant number if the second digit of the second highest number is multiplied by the third digit of the highest number?
A. 0   B. 12   C. 18   D. 10

113. What is the difference between the second digit of the third highest number and the third digit of the lowest number?
A. 1   B. 5   C. 2   D. 3

114. If all the digits in each of the numbers are arranged in descending order within the number, which of the following numbers given in the original sequence will become the lowest number in the new arrangement?
A. 172   B. 241   C. 463   D. 421

115. If in each number the first and the third digits are interchanged then which originally given number will be the highest number in the new arrangement?
A. 571   B. 645   C. 172   D. 843

116. Two years ago, the ratio of Ram's and Mohan's age was 3 : 2 and at present 7 : 5. What are their present ages?
A. 14 years, 10 years   B. 15 years, 10 years   C. 13 years, 9 years   D. None of these

117. If "T" means (x), 'U' means (-) , 'X' means (÷) and W means (+), then what will be the value of the following expression ?
  (50 X 2) W (28 T 4)
  A. 142   B. 158   C. 137   D. 163

118. Select the correct combination of mathematical signs to replace * signs and to balance the given equation.
  9 * 3 * 3 * 3 * 6
  A. ÷ x - =   B. + - x =   C. - + + =   D. x + - =

119. Direction: In each of the following question, arrange the words in a meaningful, logical order and then select the appropriate sequence from the alternative given below for each of the groups of words.
  (i) Farmer
  (ii) Seed
  (iii) Food
  (iV) Cultivation
  A. (i), (ii), (iv), (iii)   B. (ii), (i), (iii), (iv)   C. (iv), (ii), (iii), (i)   D. (iii), (i), (iv), (ii)

120. Direction: Study the following information carefully and answer the questions given below:
  (i) A, B, C, D, E, F, G and H are eight students, each having a different height.
  (ii) D is shorter than A but taller than G
  (iii) E is taller than H but shorter than C

(iv) B is shorter than D but taller than F
(v) C is shorter than G
(vi) G is not as tall as F
Which of the following is definitely false?
A. G is shorter than F   B. C is shorter than F   C. F is taller than c   D. All are true

121. 12, 15, 19, 24, ?
A. 28   B. 27   C. 30   D. 32
The difference between the numbers increases by 1.

122. 499, 622, 868, 1237, 1729, 2344, ?
A. 3205   B. 3082   C. 2959   D. 3462

123. 274, 301, 426, 769, 1498, 2824, 5026
A. 301   B. 426   C. 769   D. 2824

124. D is the brother of B. M is the brother of B. K is the father of M. T is the wife of K. How is B related to T?
A. Son   B. Daughter   C. Son or Daughter   D. Data inadequate

125. Pointing to a girl, Arun said, "She is the only daughter of my grandfather's son." How is the girl related to Arun?
A. Daughter   B. Sister   C. Cousin Sister   D. Data inadequate

126. A boy meets a girl in the party who introduces herself as the daughter of his grandfather's daughter's brother. How is the boy related to the girl?
A. brother-in-law   B. uncle   C. brother   D. sister

127. Kamlesh remembers that his brother Suraj's birthday falls after 29th October, but before 5th November, while Sheetal remembers that Suraj's birthday falls before 31st October, but after 20th October. On which date does Suraj's birthday fall?
A. 29th October   B. 30th October   C. 31st October   D. None of the above

128. If PARTICLE is coded RCTVKENG, then how is SCIENCE coded?
A. TBJUOMF   B. TDJFODF   C. UEKGPEG   D. QBSUDMF

129. Five friends A, B, C, D & E went to college, each one of them reached at different times. If B reached after C & D; A and E reached before C & D, then who was the last person to reach?
A. A   B. D   C. C   D. B

130. Milk : Cream
A. College : Students   B. Sugar : Sweet   C. Clay : Pottery   D. Fruit : Glucose

131. Straws : Nest
A. Water : Stream   B. Animals : Zoo   C. Threads : Cloth   D. Wood : paper

132. Latter : Word
A. Homework : School   B. Club : People   C. Product : Factory   D. Page : Book

133. If the clock read 6:20 and if the minute hand point North-East, in which direction will the hour hand point ?
A.West   B.South-East   C. East   D.North-West
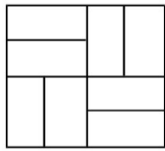
134.`All beggars are poor.'
If the above statement is true, which of the following conclusions can be drawn?
A.All those who are poor are beggars   B. If A is rich, then A is not a beggar.
C.If A is not rich, then A is not a beggar   D. If A is a beggar, then A is not rich.

135.Which is not the Mirror Image ?
A. 1   B. 2   C.3   D. 4

136. Count the number of Rectangle in above figure


A. 14   B. 16   C. 18   D. 20

137.Raju was to go to the planetarium. So he walked 1.5 kms towards east from the place and then turned to right and walked 2.5 kms and then turned towards east and walked 1 km and turned to south and walked 4 kms and reached the place by walking 2.5 kms towards west. What distance is he from the starting point ?
A. 6.5 kms   B. 9.5 kms   C. 10 kms   D. 9 kms

138.Understanding the relation of, select the correct diagram. Furniture, chair, table

(a)   (b)   (c)   (d)
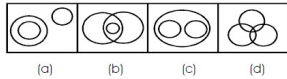
A. a   B. b   C. c   D.d

139.After interchanging + and –, 8 and 7, which one of the following becomes correct?
A. 2 x 8 + 6 – 9 = 25   B. 8 – 7 + 3 x 5 = 35
C. 6 + 8 x 2 – 7 = 0   D. 8 x 2 + 7 – 6 = 9

140.Choose the correct mirror image of the given figure (X) from amongst the four alternatives.

(X)   (1)   (2)   (3)   (4)
A. 1   B.2   C.3   D.4

141.Choose a figure which would most closely resemble the unfolded form of Figure (Z).
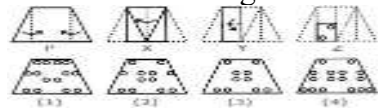
A.1   B.2   C.3   D.4

142.Choose the box that is similar to the box formed from the given sheet of paper (X).

(X)   (1)   (2)   (3)   (4)
A.1 only   B.1 and 3 only   C.1, 3 and 4 only   D.1, 2, 3 and 4

143.Choose the correct water image of the given figure (X) from amongst the four alternatives.
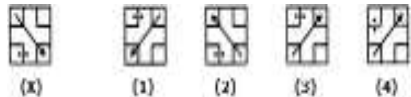
(X)   (1)   (2)   (3)   (4)
A.1   B.2   C.3   D.4

144.Statement: "In order to bring punctuality in our office, we must provide conveyance allowance to our employees." - In charge of a company tells Personnel Manager.
 Assumptions:
Conveyance allowance will not help in bringing punctuality.
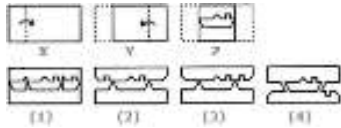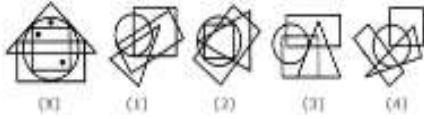Discipline and reward should always go hand in hand.
A.Only assumption I is implicit   B.Only assumption II is implicit
C.Either I or II is implicit   D.Neither I nor II is implicit

145.Choose a figure which would most closely resemble the unfolded form of Figure (Z).

A.1   B.2   C.3   D.4

146.Select the figure which satisfies the same conditions of placement of the dots as in Figure-X.

A.1   B.2   C.3   D.4

147.Choose the set of figures which follows the given rule.
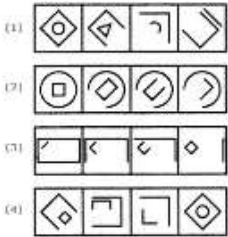
Rule: Closed figures gradually become open and open figures gradually become closed.
A.1   B.2   C.3   D.4

148.Choose the box that is similar to the box formed from the given sheet of paper (X).
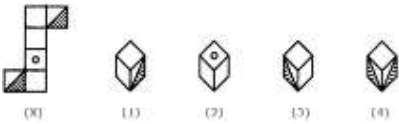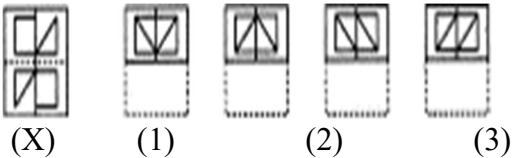
A.1 and 3 only   B.1 and 4 only   C.2 and 4 only   D.3 and 4 only

149.Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.
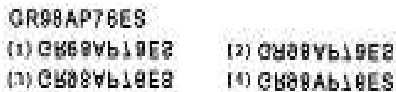
(X)   (1)   (2)   (3)   (4)
A.1   B.2   C.3   D.4

150.Choose the alternative which is closely resembles the water-image of the given combination.
GR98AP76ES
(1) CK69Vb1DE2   (2) OY08Yb1DE2
(1) CK08Vb1DE9   (4) CH08Ab1ES
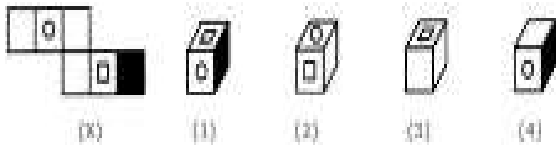A.1   B.2   C.3   D.4

151. Choose the box that is similar to the box formed from the given sheet of paper (X).

A. 1 and 2 only   B. 2, 3 and 4 only
C. 4 only   D. 3 and 4 only

152. Statement: If you are an engineer, we have a challenging job for you.
Assumptions:
We need an engineer.
You are an engineer.
A. Only assumption I is implicit   B. Only assumption II is implicit
C. Neither I nor II is implicit   D. Both I and II are implicit

153. B2CD, _____, BCD4, B5CD, BC6D
A. B2C2D   B. BC3D   C. B2C3D   D. BCD7

154. At a crossing, there was a direction pole, which was showing all the four correct directions. But due to the wind, it turns in such a manner that now West pointer is showing South. Harish went in the wrong direction thinking that he was travelling East. In what direction he was actually travelling?
 A. South   B. North   C. West   D. East

155. J,K,L,M,N,O,P and R are eight huts. L is 2 km east of K. J is 1 km north of K and Q is 2 km south of J. P is 1 km west of Q while M is 3 km east of P and O is 2 km north of P. R is situated right in the middle of K and L while N is just in the middle of Q and M.
 Distance between K and P is
A. 1.0km   B. 1.23 km   C. 1.41 km   D. 1.5 km

156. In a chess tournament each of six players will play every other player exactly once. How many matches will be played during the tournament ?
A. 12   B. 15   C. 30   D. 36

157. A, B, C and D play a game of cards. A says to B. "If I give you 8 cards, you will have as many as C has and I shall have 3 less than what C has. Also if I take 8 cards from C, I shall have twice as many as D has." If B and D together have 50 cards, how many cards have A got?
A. 35   B. 37   C. 38   D. 40

158. General placement of carrom board
P, Q, R, and S are playing a game of carrom. P, R, and S, Q are partners. S is to the right of R who is facing west. Then Q is facing?

A. North   B. South   C. East   D. West

159. Horns : Bull
A. Wattles : Turkey   B. Hoofs : Horse   C. Mane : Lion   D. Antlers : Stag

160. Choose the odd numeral pair/group in each of the following questions.

A. 9 – 36   B. 16 – 64   C. 36 – 216   D. 49 - 343

161. The least perfect square, which is divisible by each of 21, 36 and 66 is

A. 213444   B. 214333   C. 214434   D. 231444

162. Aruna cut a cake into two halves and cuts one half into smaller pieces of equal size. Each of the small pieces is twenty grams in weight. If she has seven pieces of the cake in all with her, how heavy was the original cake ?

A. 240 gm   B. 220 gm   C. 225 gm   D. 250 gm

163. A rectangle is a quadrilateral and its four sides are equal. Which is not correct?

A. A rectangle is a quadrilateral is false   B. A rectangle has four sides is true
C. A rectangle is a quadrilateral is true   D. A rectangle has all sided equal is false

164. The following question consists of some Problem Figures followed by other figures marked 1, 2, 3, 4 called the Answer Figures.
Find out the correct answer figure that should come next in the sequence of problem figures.
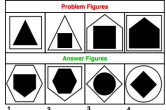
A. 1   B. 2   C. 3   D. 4

165. A clock is set right at 5 am the clock loses 16 min in 24 hours. What will be the right time when the clock indicates on 3 pm the 8th day?

A. 4 pm   B. 5 pm   C. 6 pm   D. 7 pm

166. Read the following information carefully and answer the questions below.
1. J + K means J is the son of K
2. J - K means J is the wife of K
3. J x K means J is the brother of K
4. J ÷ K means J is the mother of K
5. J = K means J is the sister of K

What does A + B – C mean?

A. C is the father of A   B. C is the uncle of A
C. C is the son of A   D. C is the brother of A

167. Read the following information to answer the given question.
Some boys are sitting in three rows all facing North such that B is in the middle row. C is just to the right of B but in the same row.
D is just behind of C while A is in the North of B.
In which direction of A is D?

A. South-East   B. South-West   C. North-West   D. North-East

168. Read the following information to answer the given questions
In a coded message, SLOW MOVE, GET BACKWARDS, FIRE AWAY is written as VFMD ZMWE, BEN PCTLDCOXU, QHOE CDCI.
Based on this coding scheme, spot the codes for following words BRICKS

A. POHTUL   B. POHLLU   C. POHTLU   D. POHULT

169. In a certain code language, 'it be pee' means 'dogs are blue', 'sik hee' means 'large horses' and 'pee mit hee' means 'horses are pigs'.
 How is 'pigs are large horses' written in this code?
A. Mit pee sik hee   B. Sik it pee be   C. Cannot be determined   D. None of these

170.Pointing towards a girl, a man said to a woman, "Her mother is the only daughter of your mother."
How is the girl related to that woman?
A. Sister   B. Daughter   C. Aunt   D. Wife

171.Choose the number which is different from others in the group.
A. 6788   B. 6878   C. 6482   D. 9848

172.Choose the odd pair of words.
A. Profit – Loss   B. Virtue – Vice   C. Seduce - Attract   D. Wise - Foolish

173.In the following question, a statement/group of statements is given followed by some conclusions. Without resolving anything yourself, choose the conclusion which logically follows from the statement(s).
 Statement - All good books help and so will this one.
A. This is not the best book.   B. Bad books don't help.
C. This is a good book.   D. Some good books do not help.

174. If 5472 = 9, 6342 = 6, 7584 = 6, what is 9236 ?
A. 2   B. 3   C. 4   D. 5

175. On January 12, 1980, it was a Saturday. The day of the week on January 12, 1979 was
A. Thursday   B. Friday   C. Saturday   D. Sunday

176. The sides of a triangle are in the ratio of 1/2:1/3:1/4. If its perimeter is 52 cm, the length of the smallest side is :
A. 9 cm   B. 10 cm   C. 11 cm   D. 12 cm

177.In the sequence of numbers
           2/3, 4/7, X, 11/21, 16/31
The missing number X is:
A. 8/10   B. 6/10   C. 5/10   D. 7/13

178. A party was held in which a grandmother, father, mother, four sons, their wives and one son and two daughters to each of the sons were present. The number of females present in the party is:
A. 12   B. 14   C. 18   D. 24

179.In certain code, SELECTION is coded as QCJCARGML. The code of AMERICANS will be
A. YKCPGAYLQ   B. BNFSJDBMR   C. QLYAGPCKY   D. YQKLCYPAG

180.A person walks 10 m infront and 10 m to the right. Then every time turning to his left, he walks 5, 15 and 15 m respectively. How far is he now from his starting point?
A. 20 m   B. 15 m   C. 10 m   D. 5 m

181.If the proposition 'domestic animals are hardly ferocious' is taken to be false, which of the following proposition/propositions can be claimed to be certainly true? Select the correct Code:
Propositions:
(a) All domestic animals are ferocious.
(b) Most of the domestic animals are ferocious.
(c) No domestic animal is ferocious.

(d) Some domestic animals are non-ferocious.
Code:

A. (a) and (b)   B. (a) only   C. (c) and (d)   D. (b) only

182. Choose the related word/letters/number from the given alternatives.
        Nest : Bird : : Den : ?

A. Owl   B. Lion   C. Rat   D. Goat

183. In a certain code language 'ne ri so' means 'good rain day', 'si ne po' means 'day is wonderful' and 'ri jo' means 'good bye'. Which of the following means 'rainy' in that code?

A. si   B. ri   C. po   D. so

184. When 70 is added to 70% of a number, then obtained number is equal to 70% of 150.Number is equal to –

A. 35   B. 50   C. 70   D. 100

185. Jayant introduces a man to his friend as his wife's father's son. The man is Jayant's _____

A. Brother-in-law   B. Sister-in-law   C. Father-in-law   D. Daughter-in-law

186. Savita correctly remembers that Rahul birthday was after Monday but before Friday. Sandeep correctly remembers that Rahul's birthday was after Tuesday but before Saturday. On which day of the week does Rahul's birthday definitely fall?

A. Wednesday   B. Thursday   C. Friday   D. Can't be determined

187. Six friends are sitting a circle and are facing the centre of the circle. Deepa is between Prakash and Pankaj. Priti is between Mukesh and Lalit. Prakash and Mukesh are opposite to each other.
Q : Who is sitting opposite to Priti?

A. Prakash   B. Deepa   C. Pankaj   D. Lalit

188. Which one set of letter when sequentially placed at the gaps in the given letter series shall complete it?
  ab __ deabcdfb __ d __ gbcfg __ cf __ h __

A. fgfick   B. fhgicc   C. ccfghi   D. ccfhgi

189. In the following question, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
 P _ R _ O _ _ E _ R _ S _ _ _ R O S

A. ERROPERSP   B. EPROPERRS   C. ERSPROPER   D. ERSPRPERO

190. Some equations have been solved on the basis of a particular system. On the same basis, find the correct answer.
5 x 8 x 6 = 6854 ,
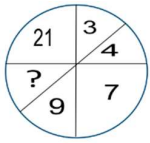2 x 3 x 9 = 9321 ,
8 x 5 x 6 = ?

A. 6587   B. 2400   C. 5421   D. 6956

191. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

7	13	6
4	22	18
15	?	7

A. 20   B. 22   C. 24   D. 28

192. Find the missing number?

21	3
?	4
9	7

A. 15   B. 12   C. 11   D. 16

193. A cuboid whose length is 6 cm. width 4 cm. and height 1 cm. Is. Two faces measuring 4 cm. x 1 cm. It is painted black. Two faces measuring 6 cm. x 1 cm. is painted red and is 6 cm. x 4 cm. The two faces are painted green. This cuboid is divided by 1 cm. x1 cm. x1 cm. is cut into cubes, then if the faces containing black and green are removed, then how many cubes will remain -

A. 8   B. 4   C. 16   D. 12

194. A solid cube is made using 64 small cubes. How many of these small cubes are not visible at all -

A. 6   B. 4   C. 2   D. 8

195. Find the odd word from the given figure?

| W 23 | I 10 | K 11 | Q 17 |
| (A) | (B) | (C) | (D) |
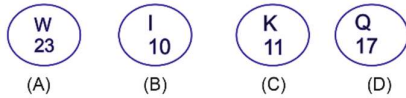
A. A   B. B   C. C   D. D

196. Select the number that can replace the question mark (?) in the following series.
2807, 1400, 697, ?, 171, 84

A. 371   B. 346   C. 697   D. 84

197. A series is given, with one term missing. Choose the correct alternative from the given options that will complete the series.
51 (?) 57 65 81

A. 53   B. 54   C. 52   D. 51

In the following, three or four alternatives are same in a certain way out of four or five and so form a group. Find the odd word that does not belong to the group. (Question 198-200)

198. A. Ample   B. Copious   C. Plentiful   D. Abundance

199. A. Pitcher   B. Tumbler   C. Bottle   D. Saucer

200. A. Bajra   B. Mustard   C. Rice   D. Wheat