

RRC- Group-D Model Paper

1. **The people of the Indus valley civilization usually built their houses by-**
 - a) Pucca Bricks
 - b) Stone
 - c) Wood
 - d) All of these
2. **Which river has not mentioned in Rigveda?**
 - a) Sindhu
 - b) Saraswathi
 - c) Yamuna
 - d) Periyar
3. **Upanishads are books on ____?**
 - a) Religion
 - b) Yoga
 - c) Law
 - d) Philosophy
4. **The third vehicle in Buddhism was known as?**
 - a) Mahasangika
 - b) Zen
 - c) Vajrayana
 - d) None
5. **The fourth Buddhist Council was covered during the reign of _____?**
 - a) Ashoka
 - b) Ajata Satru
 - c) Kanishka
 - d) Nanda
6. **To which dynasty did Ashoka belongs?**
 - a) Vardhana
 - b) Mourya
 - c) Kushan
 - d) Gupta
7. **Founder of Jainism is -**
 - a) Stulabhadra
 - b) Bhadrabahu
 - c) Parsvanatha
 - d) Rishabhanatha
8. **Eiffel Tower is in -**
 - a) India
 - b) France
 - c) Italy
 - d) USA
9. **Gateway of India is located at?**
 - 1) Mumbai
 - b) Amiritsar
 - c) Madurai
 - d) Delhi
10. **Number of Upanishads is?**
 - a) 100
 - b) 107
 - c) 108
 - d) 18
11. **Instrument that measures the depth of the Ocean?**
 - 1) Cyclotron
 - b) Electrometer
 - c) Fathometer
 - d) Anemometer
12. **The Planet nearest to Sun is -**
 - a) Mercury
 - b) Venus
 - c) Jupiter
 - d) Neptune
13. **What is the super cooled liquid among the following?**
 - 1) Icecream
 - b) Teflon
 - c) Glass
 - d) Mercury
14. **On planet Earth, there is no centrifugal force at the ____?**
 - a) Equator
 - b) Tropic of Cancer
 - c) Tropic of Capricorn
 - d) Poles

15. The average distance from the Sun to Earth is-

- 1) 150 million km
- 2) 57.8 million km
- 3) 227.9 million km
- 4) 778.2 million km

16. The terms "SYZYGy" is referred to when the --

- a) Earth is at perihelion
- b) Moon and sun are right angles
- c) Moon, sun and earth lie along straight line
- d) None of the above

17. Which of the following planets rotate clockwise?

- 1) Pluto
- 2) Jupiter
- 3) Venus
- 4) Mercury

18. A difference of one degree in longitude at the Equator is equivalent to nearly?

- a) 100 km
- b) 101 km
- c) 111 km
- d) 122 km

19. The average density of the Earth?

- 1) 0.49 g cm^{-3}
- 2) 3.3 g cm^{-3}
- 3) $1/1 \text{ g. cm}^{-3}$
- 4) 5.517 g cm^{-3}

20. Which is the second most abundant metal in the Earth's crust?

- a) Iron
- b) Aluminium
- c) Copper
- d) Zinc

21. The place of origin of an earthquakes is called?

- a) Epicentre
- b) Focus
- c) Seismal
- d) Rotation of Earth

22. The deepest oceanic trench mariana is located in?

- a) Atlantic ocean
- b) Arctic ocean
- c) Pacific ocean
- d) Indian ocean

23. Which is the largest sea in the world?

- a) Caspian sea
- b) South China Sea
- c) Mediterranean sea
- d) North Sea

24. Which river crosses the Equator twice?

- a) Amazon
- b) Congo
- c) Nile
- d) Orinoco

25. A line on a map which joins places having the same rainfall is called -

- a) Isohyet
- b) Isobar
- c) Isotherm
- d) Isohel

26. Days and nights in Equatorial region are -

- a) Equal
- b) Unequal
- c) Less in length
- d) None

27. Which fish is known as poor man's fish?

- a) Herring b) Cod c) Sardine d) Crawfish

28. World's leading producer of tobacco is?

- a) China b) USA c) India d) Russia

29. The largest producer of gold in the world is?

- 1) Australia b) Canada c) Russia d) South Africa

30. The Tropic of Cancer does not pass through -

- a) Madhya Pradesh b) West bengal c) Rajasthan d) Orissia

31. Which one of the following is a prime number?

- 1) 161 b) 221 c) 373 d) 437

32. When "n" is divided by "4" the remainder is "3". What is the remainder when "2n" is divided by "4"?

- a) 1 b) 2 c) 3 d) 4

33. The sum of the first 45 natural numbers is?

- a) 2070 b) 1035 c) 1280 d) 2140

34. $(217 \times 217 + 183 \times 183) = \underline{\hspace{2cm}}$

- a) 79698 b) 80578 c) 81268 d) 80698

35. What number should replace both the astrisks is $\frac{*}{21} \times \frac{*}{181} =$

- a) 21 b) 63 c) 147 d) 3969

36. $\frac{444}{629}$ expressed in lowest terms is _____

- a) $\frac{13}{37}$ b) $\frac{11}{17}$ c) $\frac{11}{19}$ d) $\frac{12}{17}$

37. The L.C.M. of $\frac{2}{3}, \frac{3}{5}, \frac{4}{7}, \frac{9}{13}$ is _____?

- a) 36 b) $\frac{1}{30}$ c) $\frac{1}{1365}$ d) $\frac{12}{455}$

38. The sum of two numbers is 528 and their H.C.F. is 33, the number of pairs of such numbers satisfying above condition is?

- a) 6 b) 12 c) 8 d) 4

39. What decimal of an hour is a second?

- a) 0.0025 b) 0.0256 c) 0.00027 d) 0.000126

40. In a college $\frac{1}{3}$ rd of the girls and $\frac{1}{5}$ th of the boys took part in a NCC camp. What is the total number of students in the college took part in the camp?

- a) $\frac{2}{5}$ b) $\frac{3}{8}$ c) $\frac{2}{8}$ d) $\frac{1}{8}$

41. In an examination a student scores 4 marks for every correct answer and losses one mark for every wrong answer. If he attempts all 75 questions and scores 125 marks, the number of questions he attempts correctly is?

- a) 35 b) 40 c) 42 d) 46

42. If $\frac{a}{3} = \frac{b}{4} = \frac{c}{7}$ the value of $\frac{a+b+c}{c} =$ _____

- a) 7 b) 2 c) $\frac{1}{2}$ d) $\frac{1}{7}$

43. $\frac{2707}{\sqrt{?}} = 27.07$

- a) 10 b) 100 c) 1000 d) 10000

44. The cube root of 0.000216 is?

- a) 0.6 b) 0.06 c) 0.006 d) None

45. Five years ago the average age of A,B,C, D was 45 years. With E joining them now the average of all the five is 49 years. How old is E?

- a) 25 years b) 40 years c) 45 years d) 64 years

46. If 10 be added four times to a certain number, the result is 5 less than the five times the number. Then the number is?

- a) 15 b) 20 c) 25 d) 35

47. A number consists of two digits whose sum is 8. If 18 is added to the number its digits are interchanged. The number is?

- a) 26 b) 62 c) 53 d) 35

48. Two years ago a man was 6 times as old as his son. After 18 years he will be twice as old as his son. Their present ages are?

- a) 32, 7 b) 34, 9 c) 36, 11 d) None

49. One year ago a father was four times as old as his son. In 6 years his age exceeds twice his son's age by 9 years. The ratio of their present ages is?

- a) 9 : 2 b) 11: 3 c) 12: 5 d) 13:4

50. What will be 160% of a number whose 200% is 140?

- a) 200 b) 160 c) 140 d) 112

51. If 70% of students in a school are boys and the number of girls is 504. the number of boys is?

- a) 1680 b) 1176 c) 1276 d) None

52. At an election involving two candidates, 68 votes were declared invalid. The winning candidate scores 52% and wins by 98 votes. The total number of votes polled is?

- a) 2518 b) 2450 c) 2382 d) None

53. A trader lost 20% by selling a watch for Rs.1024. What percent shall he gain (or) loss by selling it for Rs. 1472?

- a) 10% b) 12% c) 14% d) 15%

54. A vendor sells 10 mangoes for a rupee thereby gaining a profit of 20%. How many did he buy for a rupee?

- a) 9 b) 10 c) 11 d) 12

**55. Cost of 3 apples = cost of 2 mangoes
cost of 3 mangoes = cost of 2 bananas
cost of 3 bananas = cost of 2 oranges**

If a cost of orange is Rs. 54, what is the cost of apple?

- a) Rs.12/- b) Rs.14/- c) Rs.16/- d) Rs.18/-

56. Among 2:3, 4:5, 6:7, 7:9 and 11:13, which is the largest ratio?

- a) 2 :3 b) 4:5 c) 11:13 d) 7:9

57. $2A = 3B$ and $4B = 5C$ then $A : C$ is?

- a) 4 : 3 b) 8 : 15 c) 15 : 8 d) 3 : 4

58. Pencils, pens and exercise books in a shop are in the ratio of 10: 2:3. If there are 120 pencils, the number of exercise books in the shop is?

- a) 36 b) 48 c) 72 d) 400

59. A, B and C enter into a partnership with a capital in which A's contribution is Rs. 10,000. If out of a total profit of Rs.1000 A gets Rs.500 and B gets Rs.300 then C's capital is?

- 1) Rs. 4,000 b) Rs. 5,000 c) Rs. 6,000 d) Rs. 9,000

60. A, B, C hired a car for Rs.520/- and used it for 7, 8 and 11 hours respectively. Hire charges paid by B were?
- a) Rs.140 b) Rs.160 c) Rs.180 d) Rs.220
61. A started a business with Rs.21,000 and is later joined by 'B' with Rs.36,000. After how many months did 'B' join if the profits at the end of the year are divided equally?
- 1) 2 Months b) 3 Months c) 4 Months d) None
62. If 300 men can do a piece of work in 16 days. How many men would do $\frac{1}{5}$ of the work in 15 days?
- a) 56 b) 60 c) 64 d) 72
63. Machines A and B produce 8,000 clips in 4 and 5 hours respectively. If they work alternatively for 1 hour A starting first then 8,000 chips will be produced in ____?
- a) $4\frac{1}{3}$ hrs b) $4\frac{2}{3}$ hrs c) $5\frac{1}{3}$ hrs d) $5\frac{2}{3}$ hrs
64. 12 buckets of water fill a tank when the capacity of each bucket is 13.5 litres. How many buckets will be needed to fill the same tank if the capacity of each bucket is 9 litres?
- a) 8 b) 16 c) 15 d) 18
65. Two pipes A and B can fill a tank in 10 hours and 15 hours respectively. If both the pipes are opened together the tank will be full in -
- a) 5 hrs b) 6 hrs c) $12\frac{1}{2}$ hrs d) $7\frac{1}{2}$ hrs
66. Walking at $\frac{6}{7}$ of his usual speed a man is 25 minutes too late. His usual time is -
- a) $1\frac{1}{2}$ hrs b) $2\frac{1}{2}$ hrs c) $1\frac{6}{7}$ hrs d) $2\frac{4}{5}$ hrs
67. If a student walks from his house to school at 5 kmph, he is late by 30 minutes. However if he walks at 6 kmph he is late by 5 minutes only. The distance of his school from his house is -
- a) 2.5 km b) 3.6 km c) 5.5km d) 12.5 km
68. A Train 220m long is running with a speed of 59 kmph, in what time will it pass a man who is running at 7 kmph in the direction opposite to that in which the train is going?

- a) 10 Secs b) 11 Secs c) 12 Secs d) 135 Secs

69. In what time will Rs.500/- gives Rs.50/- as simple interest at the rate of 5% per annum?

- a) 2 Years b) $2\frac{1}{2}$ Years c) 3 Years d) 4 Years

70. The simple interest on a sum of money at 5% is Rs.48/- for 4 years. The simple interest on the same sum for 5 years at 4% will be

- a) Rs.40/- b) Rs.48/- c) Rs.50/- d) Rs.60/-

71. The compound interest on Rs.6250/- at 16% per annum for 2 years compounded annually?

- a) Rs.2,000/- b) Rs.2100/- c) Rs.2160/- d) Rs.3,000/-

Direction : (72-75) Choose the analog pair.

72. Genuine : Authentic : Mirage : _____

- a) Image b) Transpiration
c) Perfection d) Illusion

73. Steel : Rails :: Alnico : _____

- a) Aircraft b) Machinery
c) Silver Ware d) Magnets

74. Darwin : Evolution :: Archimedes : _____

- a) Friction b) Lubrication c) Buoyancy d) Liquids

75. Bank : River :: Coast: _____

- a) Flood b) Waves c) Sea d) Beach

76. $11\frac{1}{9}; 12\frac{1}{2}; 14\frac{2}{7};$ _____ ?

- a) $8\frac{1}{3}$ b) $9\frac{1}{11}$ c) 10 d) 20

77. In a certain language "KINDLE" is coded as "ELDNIK" how is "EXOTIC" written in this code?

- a) EXOTLC b) CXOTIE c) COXITE d) CITOXE

78. If "FRIEND" is coded as "HUMJTK" how is "CANDLE" written in that code?

- a) EDRIRL b) DCQHQK c) ESJFME d) None

88. Which of the following in a pair of females?

- a) AE b) BD c) DF d) AD

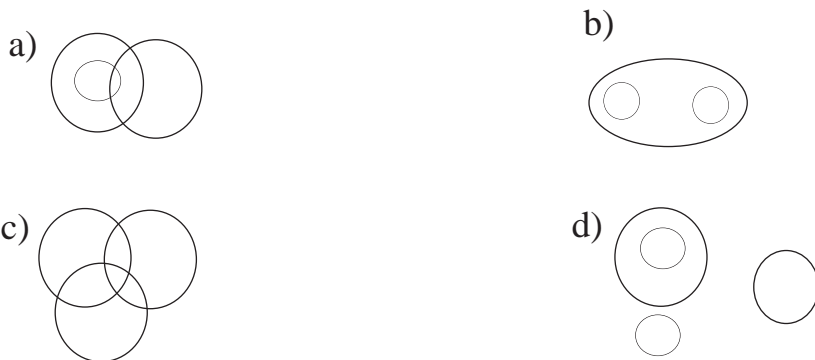
89. If P is taller than "Q", "R" is shorter than P, S is taller than T but shorter than Q. then who among them is the tallest?

- a) P b) Q c) S d) T

90. One day Ravi left home and cycled 10 km southwards, turned right and cycled 5 km and turned right and cycled 10 km and turned left and cycled 10 km. How many kilometres will he has to cycle to reach his home straight?

- a) 10 km b) 15 km c) 20 km d) 25 km

91. Which of the following diagrams correctly represents women, mothers and widows?



Directions (92-95) Each of the following questions is based on the following alphabet series.

A B C D E F G H I J K L M N O P Q R S T U
V W X Y Z

92. Which letter is exactly midway between H and S in the given alphabet?

- a) L b) M c) P d) No such letter

93. In the english alphabet, which letter will be to the immediate left of M

- a) N b) L c) O d) K

94. Which letter is sixteenth to the right of the letter that is fourth to the left of I

- a) S b) T c) U d) V

95. Which letter is the seventh to the right of the thirteenth letter from your left?

- a) S b) T c) U d) V

96. A number is greater than 3 but less than 8. It is also greater than 6 but less than 10, then what is the number?

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

97. "Sanjeev" ranks seventh from the top and twenty eighth from the bottom in a class.

How many students are there in the class?

- a) 37 b) 36 c) 35 d) 34

98. Arrange the following in a meaningful order -

- 1) District 2) Village 3) State 4) Town

- a) 2, 1, 4, 3 b) 2, 3, 4, 1 c) 2, 4, 1, 3 d) 3, 2, 1, 4

Directions (99-100): find which one word cannot be made from the letters of the given word in each of the following questions.

99. "CARPENTER"

- a) NECTAR b) CARPET c) PAINTER d) REPENT

100. "UNIFORMITY"

- a) TINY b) TORN c) RENT d) FORM

ANSWERS

- | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|
| 1) ఎ | 2) డి | 3) డి | 4) సి | 5) సి | 6) బి | 7) డి |
| 8) బి | 9) ఎ | 10) సి | 11) సి | 12) ఎ | 13) సి | 14) డి |
| 15) ఎ | 16) సి | 17) సి | 18) సి | 19) డి | 20) బి | 21) ఎ |
| 22) సి | 23) బి | 24) బి | 25) ఎ | 26) ఎ | 27) ఎ | 28) ఎ |
| 29) డి | 30) డి | 31) సి | 32) బి | 33) బి | 34) బి | 35) బి |
| 36) డి | 37) ఎ | 38) డి | 39) సి | 40) సి | 41) బి | 42) బి |
| 43) డి | 44) బి | 45) సి | 46) ఎ | 47) డి | 48) ఎ | 49) బి |
| 50) డి | 51) బి | 52) ఎ | 53) డి | 54) డి | 55) సి | 56) సి |
| 57) సి | 58) ఎ | 59) ఎ | 60) బి | 61) డి | 62) సి | 63) సి |
| 64) డి | 65) బి | 66) బి | 67) డి | 68) సి | 69) ఎ | 70) బి |
| 71) సి | 72) డి | 73) డి | 74) సి | 75) సి | 76) డి | 77) డి |
| 78) ఎ | 79) డి | 80) సి | 81) డి | 82) ఎ | 83) సి | 84) డి |
| 85) డి | 86) సి | 87) డి | 88) డి | 89) ఎ | 90) బి | 91) సి |
| 92) డి | 93) బి | 94) సి | 95) బి | 96) సి | 97) డి | 98) సి |
| 99) సి | 100) ఎ | | | | | |