RRB GROUP D

TEST SERIES

DATE- __/__/__
DAY- _____

INSTRUCTION FOR CANDIDATE

TEST SERIES NO.
SG Set - 26

QUESTION- 100   **MARKS- 100**   **NEGATIVE MARK- 0.33**   **DURATION- 90 MIN.**

1. Use only ball pens with black or blue ink
2. As soon as the examination starts, you must check this question booklet and if there is any unprinted, mutilated or partially printed page or question in it, then replace it with the correct question booklet through the examiner.
3. There are a total of 100 questions in this question booklet.
4. This is an objective test, in which four options are given for the answer to each question, you have to choose only one option with the correct answer out of these four options.
5. Answers to all questions are to be written on separate answer sheets.

6. Instructions for filling the answer sheet are written on the back side of the answer sheet, read them carefully before filling the answer sheet.
7. Blank pages are available in this question booklet for rough work.
8. Candidates cannot leave the room before the end of the examination.
9. After the examination is over, you can go out only with his permission after submitting the ORIGINAL COPY of the answer sheet to the invigilator.
10. After the completion of the examination, the candidate is allowed to take the question booklet and answer sheet with him/her.
11. 1 marks will be given for each correct answer and 0.33 marks will be deducted for each wrong answer.

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1.The fibrous tissue that joins bone to bone is

(a) ligament   (b) cartilage

(c) connective tissue   (d) tendon

2.The isotopes of oxygen are

(a) 2   (b) 3

(c) 4   (d) 5

3.The electronic configuration of chromium is

(a) 2,8,12,2   (b) 2,8,10,4

(c) 2,8,8,6   (d) 2,8,13,1

4.Three wires having resistances 1Ω, 2Ω and 3Ω respectively are connected in parallel. The equivalent resistance of the circuit formed is

(a) $\frac{6}{11}\Omega$ (b) $\frac{11}{6}\Omega$

(c) 6Ω   (d) $\frac{1}{6}\Omega$

5.Choose the correct statement about rods and cones in human eye.

(a) Cones are sensitive to dim light

(b) Rods are sensitive to bright light

(c) Cones are sensitive to bright light

(d) Rods can perceive colours

6.A body of mass 6 kg is sliding on a frictionless horizontal surface with a uniform speed of 3 km/s. The force required to move this body along this straight line with the same speed is

(a) 36 Newton   (b) 18 Newton

(c) 54 Newton   (d) 0 Newton

7. In the reaction $Mg + Cl_2 \rightarrow MgCl_2$

(a) Mg is oxidized and Cl_2 is reduced

(b) Mg is reduced and Cl_2 is oxidized

(c) Magnesium (Mg) gains 2 electrons

(d) Chlorine (Cl) loses 1 electron

8. Wheat, maize, bamboo, sugarcane, rice, sorghum, millet and grass etc. belong to which plant family?

(a) Gramineae   (b) Mucoraceae

(c) Rutaceae   (d) Cuciferae

9. The correct sequence of events during the reproductive period in human is

(a) Gamete formation, Fertilisation, Embryo, Zygote

(b) Gamete formation, Fertilisation, Zygote, Embryo

(c) Gamete formation, Zygote, Fertilisation, Embryo

(d) Zygote, Gamete formation, Fertilisation, Embryo

10. Which of the following options represents a group of diseases caused to humans by viruses?

(a) Measles, Typhoid, Tuberculosis

(b) Measles, Polio, Typhoid

(c) Measles, Chickenpox, Hepatitis-A

(d) Malaria, Chickenpox, Hepatitis-A

11. Sometimes after doing physical work, we get cramps, spasms/spasms/pull in our muscles. The reason for this is

(a) conversion of pyruvate into alcohol

(b) glucose not getting converted into lactic acid

(c) glucose not getting converted into pyruvate

(d) conversion of pyruvate into lactic acid

12. Due to what reason does a coin lying at the bottom of a bucket filled with water appear to be raised slightly above its actual depth?

(a) Due to refraction of light

(b) Due to total reflection of light

(c) Due to interference of light

(d) None of the above

13. The value of escape velocity from the surface of the earth is

(a) 11.2 km/s   (b) 11.2 m/s

(c) 11.2 cm/s   (d) 11.2 km/hour

14. The velocity of sound in air is 332 m/s. If the air pressure is doubled, the velocity of sound will be

(a) 166 m/s   (b) 996 m/s

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(c) 664 m/s   (d) 332 m/s

15. Requirement of nutrients in human nutrition, method of food intake and in the body.

It is used in various stages, which are

I. Absorption   II. eviction

III. assimilation   IV. ingestion

V. Digestion

Arrange these stages in the order in which they occur in the body.

(a) V, IV, III, I, II   (b) IV, I, II, III, V

(c) I, II, III, IV, V   (d) IV, V, I, III, II

16. Which hormone of the body helps us in adjusting stress?

(a) Thyroxine   (b) Insulin

(c) Estrogen   (d) Adrenaline

17. Which of the following options represents the group of autotrophs? (a) Spinach, Mushroom, Tomato, Yeast

(b) Tulsi, Seaweed, Amarbel (sky bel), Mushroom

(c) Seaweed, Spinach, Tomato, Banana

(d) Seaweed, Amarbel, (sky bel), Banana, Mango

18. The relation between the speed of sound v in a gas and the absolute temperature T of the gas is

(a) $v \propto T$ (b) $v \propto \sqrt{T}$

(c) $v \propto \frac{1}{T}$ (d) $v \propto \frac{1}{\sqrt{T}}$

19. The relation between momentum and force is

(a) $F = m \times a$

(b) $F \times t = m \times a$

(c) $F = mv - mu$

(d) $F \times t = mv - mu$

20. The order of 0.00542 is

(a) 10^{-5} (b) 10^{-4}

(c) 10^{-3} (d) 10^{-2}

21. Bilirubin is found in

(a) bile   (b) blood

(c) saliva   (d) gastric juice

22. Nitrogen behaves towards litmus as

(a) acidic   (b) alkaline

(c) neutral   (d) both (a) and (b)

23. One newton is equal to how many dynes?

(a) 106   (b) 105

(c) 103   (d) 104

24. Total internal reflection is possible when light travels

(a) from air to water

(b) from air to glass

(c) from water to glass

(d) from glass to water

25. Which of the following methods of heat transfer does not necessarily require a medium?

(a) Conduction

(b) Convection

(c) Radiation

(d) All of the above are not required

26. 1100 boys and 900 girls appeared in an examination. If 50% boys and 40% girls passed the examination, find the total percentage of students who passed

(a) 90%   (b) 40%

(c) 50.5%   (d) 45.5%

27. A man saves ₹3600 per month after spending 85% of his monthly income. Find the total income

(a) ₹2400   (b) ₹24000

(c) ₹36000   (d) 40000

28. If 4 men or 7 women can complete a work in 60 days, then in how many days will 8 men and 7 women complete the same work?

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(a) 30 (b) 20

(c) 25 (d) 15

29. A car completes a journey at the rate of 60 km/h in 5 hours. If the same journey is completed at 50 km/h, how much time will it take?

(a) 10 hours (b) 4 hours

(c) 8 hours (d) 6 hours

30. What is the value of $\left(-\frac{1}{27}\right)^{-2/3}$ after simplification?

(a) 6 (b) 12

(c) 3 (d) 9

31. A man completes 2/15th of his journey by plane, 2/5th by train and the remaining part by taxi. How much part of his journey does he complete by taxi?

(a) $\frac{8}{15}$ (b) $\frac{7}{15}$

(c) $\frac{6}{15}$ (d) None of these

32. Find the smallest number which when divided by 15, 20,36 and 48 leaves remainder 8 in each case

(a) 720 (b) 728

(c) 700\ (d) None of these

33. How many numbers between 1 to 300 are exactly divisible by 7?

(a) 42 (b) 45

(c) 26 (d) 6

34. Which of the following is the simplified formula of $a^2 - 2ab + b^2$?

(a) $a^2 - b^2$ (b) $(a + b)^2$

(c) $a^3 + b^3$ (d) $(a - b)^2$

35.Person A can complete a piece of work in 48 minutes; while person B can complete the same work in 60 minutes. If they work together, how much time will they take to complete it?

(a) 26 min 40 sec (b) 28 min 20 sec

(c) 30 min 45 sec (d) 32 min 15 sec

36.Rajesh can walk at a speed of 5 m/s or cycle at a speed of 20 m/s. He takes 45 sec to cover a distance of 600 m by combining both modes of transport. How long did Rajesh cycle?

(a) 15 seconds (b) 20 seconds

(c) 25 seconds (d) 26 seconds

37. Mahim scored 126 out of 175 marks in an examination. What is the percentage of marks obtained by Mahim?

(a) 75% (b) 72%

(c) 70.5% (d) 70%

38. On investing ₹3750 at 4% simple interest per annum for 5 years, ₹...interest will be obtained.

(a) 800 (b) 640

(c) 675 (d) 750

39. What will be the amount of interest obtained on investing ₹2100 for 2 years at 10% annual compound interest?

(a) ₹432 (b) ₹441

(c) ₹453 (d) ₹462

40. Person A can complete a piece of work in 90 minutes; while person B takes 54 minutes to complete the same work. How much time will they take together to complete the work?

(a) 34 minutes 40 seconds

(b) 34 minutes 30 seconds

(c) 33 minutes 45 seconds

(d) 32 minutes 55 seconds

41. The ratio of length, breadth and height of a room is 5 : 4 : 2. If in a new room, the length is increased by 40% and breadth by 25%, what will be the change in the volume of the room so that the total area of the four walls of the room remains the same?

(a) Same as before.

(b) 31.25% increase.

(c) 20.25% increase.

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(d) 10% increase.

42. Ian can finish a piece of work in 15 hours; while Manas takes 21 hours to finish the same work. Starting with Ian, both work alternately for one hour each till the work is completed. Only during the last shift, one of them can work for less than an hour till the work is completed. How much time will they take to finish the work?

(a) 17 hours 24 minutes

(b) 17 hours 30 minutes

(c) 17 hours 48 minutes

(d) 17 hours 50 minutes

43. If 121 chocolates are divided in the ratio of 7 : 4, then the smaller portion of chocolates will be,

(a) 40   (b) 44

(c) 48   (d) 36

44. Which of the following numbers is not a square number?

(a) 5625   (b) 7225

(c) 3625   (d) 9025

45. Choose the most appropriate option to solve the following equation.

805 × (26-8÷3) ÷ 12

(a) 12   (b) 8

(c) 16   (d) 32

46. By selling an item for ₹ 693, Smriti gets a profit of 26%. For how much rupees did Smriti buy that item?

(a) ₹550   (b) ₹560

(c) ₹540   (d) ₹575

47. A toy was sold for ₹215 at a discount of 14%. What was the marked price of the toy?

(a) ₹240   (b) ₹275

(c) ₹250   (d) ₹260

48. If $x + \frac{1}{x} = 2, x \neq 0$, then the value of $x^2 + \frac{1}{x^3}$ is

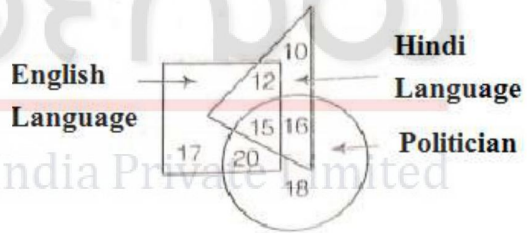(a) 1   (b) 2

(c) 3   (d) 4

49. The radii of two concentric circles are 9 cm and 15 cm. If the chord of the larger circle is a tangent to the smaller circle, then find the length of the chord

(a) 24 cm   (b) 12 cm

(c) 30 cm   (d) 18 cm

50. What is the value of tan 45°?

(a) 1   (b) $\frac{1}{\sqrt{3}}$

(c) $\frac{\sqrt{3}}{2}$ (d) 0

51. Tell the number of politicians who speak only Hindi

(a) 18   (b) 15

(c) 20   (d) 16

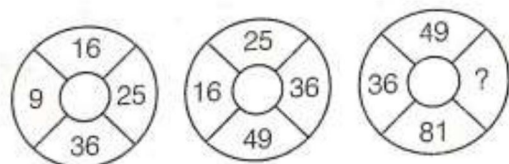Directions (Q. 52-54) Choose the related word/number in the following questions.

52. Germany : Mark :: Morocco : ?

(a) Lira   (b) Dollar

(c) Kroon   (d) Dirham

53. 64:100::16: ?

(a) 55   (b) 50

(c) 36   (d) 25

54

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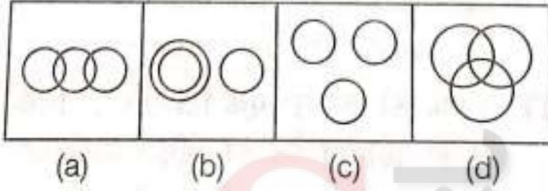**HELPLINE** 90711 54445, 90711 64446, 90711 74447

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(a) 64

(b) 144

(c) 169

(d) 25

55. If 'dust' is called 'air', 'air' is called 'white', 'white' is called 'yellow', 'yellow' is called 'water' and 'water' is called 'red', where will the birds fly?

(a) Air

(b) Yellow

(c) White

(d) Water

56. Which of the following figures best represents the relationship between tree, elephant and animal?

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

57. The statements given below are followed by two conclusions I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, can definitely be drawn from the given statements. Indicate your answer. Statement All men are employed. No employee is a businessman.

Conclusion

I. No man is unemployed. II. No man is a businessman.

(a) Only conclusion I follows

(b) Only conclusion II follows

(c) Both conclusion I and II follow

(d) Neither conclusion I nor conclusion II follows

58. If (–) is the sign of division, (+) is the sign of multiplication, (:) is the sign of subtraction and (x) is the sign of addition, then what will be the answer of the following question ?

100+ 5-10 x 250 ÷ 200 = ?

(a) 150

(b) 200

(c) 50

(d) 100

59. From the given options, choose the word which cannot be formed using the letters of the given word

SHIPMENT

(a) STENT

(b) HIPS

(c) SPENT

(d) SENT

60. If in a code language HEART is written as @8531 and FEAST is written as #8541, then how will FARTHEST be written in the same language?

(a) @8543#18

(b) #5314@81

(c) #531@841

(d) 4531@845

61. Arrange the following words in a meaningful order

1. Centimetre   2. Kilometer

3. Decimetre   4. Meter

(a) 2, 4, 1, 3

(b) 3, 1, 2, 4.

(c) 4, 2, 3, 1

(d) 1, 3, 4, 2

62. In the morning Ashish walked 2 km facing the sun and stopped. From there he again walked 4 km to his right, from there again walked 1 km facing the sun, finally he walked to his right. In which direction is Ashish walking now?

(a) South

(b) South-west

(c) South-east

(d) East

63. Which letter in the English alphabet will be exactly in the middle of the 9th letter from your left and the 10th letter from your right?

(a) N

(b) M

(c) L

(d) o

64. A is the mother of U and 'T'. T is the sister of J. J is the son of M. P is married to U. U is the daughter-in-law of K. How is P related to M?

(a) Cousin

(b) Son

(c) Nephew

(d) Son-in-law

65. Choose the appropriate combination of symbols to solve the equation.

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(23-17) * (12 ÷ 2) * 3 * 4

(a) - ÷ =   (b) + +=

(c) + + =   (d) x ÷ =

66. Mayuri walked 25 m eastwards from her house and turning left walked 20 m. Then turning westwards she walked 15 m and turning left walked 20 m. Now in which direction is she from her house?

(a) West   (b) East

(c) North   (d) South

67. Given below are three statements followed by four conclusions

(a), (b), (c) and (d). Choose the correct conclusion from them.

Statement All students are graduates. Some students are swimmers. All swimmers are drivers.

Conclusions -

(a) All graduates are swimmers

(b) All students are drivers

(c) Some graduates are swimmers

(d) All swimmers are graduates

68. Below is a statement followed by four conclusions I, II, III and IV. Choose the correct conclusion from them.

Statement Why is environmental air pollution a result of modernization?

Conclusions

I. Too many vehicles are emitting smoke.

II. Chemical waste is being released into rivers.

III. Waste is being dumped in wastelands.

IV. Animal waste and fish are being dried on the roads.

(a) Conclusion III is true

(b) Conclusion IV is true

(c) Conclusion I is true

(d) Conclusion II is true

69. In a certain code DURATION is written as VEBSJUOP, then how is FORECAST written in that code?

(a) PGSFUTBD   (b) PGFSBDUT

(c) PGSFBDTU   (d) PGFSUTBD

70.If ' + ' stands for subtraction, '' stands for addition, '-' stands for multiplication and ' × ' stands for division, then which of the following equations is correct?

(a) 66×3-11+12=230

(b) 2+14×4÷11=16

(c) 46-10+10×5=92

(d) 265+11-2×14=22

71. Arrange the given words in alphabetical order and select the word which comes first in the dictionary

(a) Parasite   (b) Party

(c) Petal   (d) Paste

Directions (Q.No. 72 and 73)

Identify the odd one out of the following. 72.

(a) Zinc   (b) Bronze

(c) Silver   (d) Platinum

73.

(a) Flock   (b) Crowd

(c) Hunting dog   (d) Team

74. Deepak starts walking towards east. After walking 75 m, he turns left and walks 25 m straight. Again he turns left and walks 40 m straight. Again he turns left and walks 25 m. How far is he from his starting point?

(a) 25 m   (b) 50 m

(c) 115 m   (d) None of these

75. A man is standing facing west. He turns 45° clockwise, then turns 180° in the same direction

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and then turns 270° anticlockwise. In which direction is he facing now?

(a) South   (b) North-west

(c) West   (d) South-west

Directions (Q. No. 76 and 77) Choose the correct option based on the following statements.

76. Statement All flowers are stems. All stems are roots. Conclusion I. All roots are flowers.

II. All stems are flowers.

(a) Only conclusion I follows

(b) Only conclusion II follows

(c) Either conclusion I or conclusion II follows

(d) Neither conclusion I nor conclusion II follows
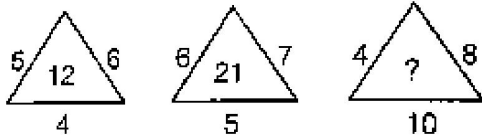
77. Statement All puppets are dolls.

All dolls are toys.

Conclusion I. Some toys are puppets.

II. All toys are puppets.

(a) Only conclusion I follows

(b) Only conclusion II follows

(c) Either conclusion I or conclusion II follows

(d) Neither conclusion I nor conclusion II follows Follows

78. Find the missing number from the following

(a) 14   (b) 22

(c) 32   (d) 320

79. Just as data processing is related to raw data, similarly university is related to

(a) teacher   (b) building

(c) student   (d) principal

80. Just as museum is related to curator, similarly prison is related to

(a) warden   (b) monitor

(c) manager   (d) jailor

81. Which of the following is the correct sequence of capitals of Libya, Ghana and Kenya?

(a) Lagos, Nairobi, Accra

(b) Lagos, Nairobi, Oslo

(c) Tripoli, Accra, Nairobi

(d) Tripoli, Accra, Oslo

82. Where are prairie grasslands found?

(a) North America   (b) India

(c) Africa   (d) Australia

83. Which of the following is called the bank of banks?

(a) ICICI   (b) SBI

(c) PNB   (d) Reserve Bank of India

84. To whom is the Dronacharya Award given?

(a) Cricket player   (b) Football player

(c) Sports coach   (d) Umpire

85. When is 'National Voter's Day' celebrated?

(a) 25 January   (b) 26 January

(c) 2 February   (d) 4 February

86. Which of the following is the working language of the United Nations?

(a) English and French

(b) English

(c) English and Hindi

(d) Hindi and French

87. Which national leader died of a fatal injury during the anti-Simon Commission movement?

(a) Bal Gangadhar Tilak

(b) Lala Lajpat Rai

(c) Bhagat Singh

(d) None of the above

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88. Who wrote the famous novel 'The Guide'?

(a) Khushwant Singh

(b) R. K. Narayan

(c) Rabindranath Tagore

(d) Mulk Raj Anand

89. What is the full form of SEWA?

(a) Self Employed Weaver's Association

(b) Self Employed Women's Association

(c) Self Employed Worker's Association

(d) None of the above

90. There is a famous .... in Modhera!

(a) Jain Temple   (b) Shiva Temple

(c) Surya Temple   (d) Vishnu Temple

91. Who was declared the leader of the revolt of 1857 by the Indian soldiers?

(a) Rani Lakshmibai   (b) Sardar Bhagat Singh

(c) Tatya Tope   (d) Bahadur Shah Zafar

92. Where is India's largest oil refinery and petrochemical complex located?

(a) Jamnagar (Gujarat)

(b) Barauni (Bihar)

(c) Mathura (Uttar Pradesh)

(d) Bina (Madhya Pradesh)

93. When does a solar eclipse occur?

(a) When the Moon comes between the Sun and the Earth

(b) When the Sun comes between the Earth and the Moon

(c) When the Earth comes between the Sun and the Moon

(d) None of the above

94. Between which northern latitudes is India located?

(a) 9°5' and 40°5'   (b) 8°4' and 37°6'

(c) 6°5' and 37°6'   (d) None of these

95. Who was the first woman Chief Minister to be appointed in a state of India?

(a) Meera Kumar   (b) Sucheta Kriplani

(c) Sarojini Naidu   (d) Anne Besant

96. Which country has won the FIFA (Football) World Cup the most number of times?

(a) Brazil   (b) Germany

(c) Italy   (d) Argentina

97. Who administers the oath of office to the Chief Justice of the High Court?

(a) Governor of the State

(b) President of India

(c) Judge of the Supreme Court

(d) Council of Ministers

98. Martin Luther King is known for leading which movement?

(a) Against apartheid (b) Against colonialism

(c) Labour   (d) Reforms

99. Which of the following is not correctly matched?

(a) Indonesia Jakarta   (b) Maldives Male

(c) North Korea – Seoul   (d) Zimbabwe - Harare

100. GST is what type of tax?

(a) Direct tax   (b) Indirect tax

(c) Sales tax   (d) Excise tax