

DO NOT OPEN THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

RRB GROUP D

TEST SERIES

DATE- __/__/__

DAY- _____

INSTRUCTION FOR CANDIDATE

TEST SERIES NO.

SG Set - 17

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 aquatic and insectivorous plant is

- (a) Utricularia (b) Dionaea
(c) Drosera (d) None of these

2. Cotton fibres are obtained from

- (a) Inner pericarp (b) Outer corolla
(c) Seed coat (d) Pericarp

3. In which of the following plants stomata are closed during the day and open at night?

- (a) Water lily (b) Cactus
(c) Cycas (d) Orchid

4. What is the amount of salt in our body?

- (a) 1% (b) 2%
(c) 4% (d) 6%

5. When a copper plate is kept in moist air for a long time, a light green layer gets deposited on it. This green substance is

- (a) Mixture of copper carbonate and copper sulphate
(b) Copper sulphate
(c) Mixture of copper hydroxide and copper sulphate
(d) Mixture of copper carbonate and copper hydroxide

6. If the potential difference at the ends of a resistive wire of resistance e is kept constant, the heat generated in the wire will be proportional to

- (a) e (b) $\frac{1}{\sqrt{e}}$
(c) $\frac{1}{e}$ (d) e^2

7. Which tissue is spread in different parts of the body and forms different parts of the body?

- (a) Connective tissue (b) Nervous tissue
(c) Epithelial tissue (d) Muscle tissue

8. Who invented the ABO blood system?

- (a) Karl Koller (b) Morris Hilleman

- (c) Karl Landsteiner (d) Edward Jenner

9. Egg is the best source of which of the following?

- (a) Fat (b) Protein
(c) Fibres (d) Carbohydrate

10. The root of banana plant is

- (a) Respiratory root (b) Climbing root
(c) Stem root (d) Adventitious root

11. Which of the following is a dicotyledon?

- (a) Grass (b) Mango
(c) Maize (d) All of these

12. Which of the following substances is not soluble in water?

- (a) Alcohol (b) Milk
(c) Honey (d) Oil

13. Which of the following is not an inverse change?

- (a) Condensation of steam
(b) Steam from water
(c) Burning of kerosene
(d) Melting of iron

14. Silicon and quartz are the constituents of

- (a) Oxygen (b) Sulphur
(c) Nitrogen (d) Hydrogen

15. The absolutely pure water completely free from impurities is called

- (a) Distilled water (b) Boiled water
(c) Mineral water (d) Heavy water

16. Which of the following commonly used fuels has the highest calorific value?

- (a) Compressed Natural Gas (CNG)
(b) Diesel

(c) Liquefied Petroleum Gas (LPG)

(d) Petrol

17. All organisms belonging to the kingdom Protista are

(a) Unicellular and eukaryotic

(b) Unicellular and prokaryotic

(c) Multicellular and prokaryotic

(d) Multicellular and eukaryotic

18. What is the reason for a comb attracting small pieces of paper?

(a) Gravitational force

(b) Frictional force

(c) Magnetic force

(d) Electrostatic force

19. What is the main function of ribosome?

(a) Synthesis of carbohydrates

(b) Synthesis of fats

(c) Synthesis of protein

(d) Photosynthesis

20. Which of the following formula shows the properties of ozone?

(a) O_2 (b) O_3

(c) H_2O_2 (d) None of the above

21. Force can be measured

(a) By using a spring balance

(b) By bathometer

(c) By calorimeter

(d) None of the above

22. Which of the following is the shiny and attractive part of a flower?

(a) Inflorescence (b) Corolla

(c) Petal (d) Sepals

23. Some chemical processes are given below

I. Rusting of iron

II. Burning of a candle

III. Respiration

IV. Photosynthesis

Which two of the following represent slow combustion?

(a) II and IV

(b) I and III

(c) IV and I

(d) II and III

24. An example of natural magnet is

(a) Iron

(b) Cobalt

(c) Magnet stone

(d) All of these

25. Blood circulation which starts from cells and ends in cells is called

(a) Renal circulation

(b) Lymphatic circulation

(c) Hepatic circulation

(d) Vascular circulation

26. What is the smallest number which when added with 3 is divisible by 27, 35, 25 and 21?

(a) 4722

(b) 4725

(c) 4728

(d) 4731

27. Four numbers are in the ratio 1:3:4:7 whose sum is 105. Find the largest number.

(a) 42

(b) 35

(c) 49

(d) 63

28. A boy was asked to multiply a number by 53. He multiplied it by 35 by mistake and got 1206 less than the correct answer. What is that number?

(a) 76

(b) 67

(c) 72

(d) 75

29. P and Q together can complete a piece of work in 36 days. When after working together for 30

days, Q leaves the work and P completes the remaining work in 10 days, then in how many days can Q alone complete the work?

- (a) 45 days (b) 60 days
(c) 75 days (d) 90 days

30. ₹ 680 is divided among P, Q and R such that P gets $\frac{2}{3}$ of Q and Q gets $\frac{1}{4}$ of R. How much does R get?

- (a) ₹ 480 (b) ₹ 300
(c) ₹ 420 (d) ₹ 360

31. Ramesh invests a certain sum at 9% annual simple interest. If he gets ₹20250 as interest after one year, then find the amount invested by him.

- (a) ₹250000 (b) ₹200000
(c) 225000 (d) 275000

32. There is a profit of 320% on selling an item. If the cost price increases by 25%, but the selling price remains constant, then tell what is the approximate percentage profit of the selling price?

- (a) 70 (b) 80
(c) 90 (d) None of these

33. If a milkman mixes 4 liters of water in 9 liters of milk, then how much water should he mix in 36 liters of milk to maintain the ratio of milk and water same?

- (a) 14 litres (b) 10 litres
(c) 16 litres (d) 12 litres

34. An article is marked at ₹400 and is sold at two successive discounts of 10% and 12%. Find the selling price of the article.

- (a) ₹306.80 (b) ₹323.80
(c) ₹316.80 (d) ₹313.80

35. The speed of a car is 20 m/s. Find the distance (in km) covered by the car in 2 hours 20 minutes.

- (a) 168 (b) 158

- (c) 162 (d) 166

36. A ship starts leaking at a distance of 20 km from the shore. Despite the leak, the ship is able to move towards the shore at a speed of 12 km/h. However, the ship can remain afloat only for 23 minutes. If a rescue boat is sent from the shore towards the ship and takes 8 minutes to evacuate the crew and passengers, what should be the minimum speed of the rescue boat to be able to rescue the people successfully?

- (a) 65 km/h (b) 67 km/h
(c) 68 km/h (d) 70 km/h

37.3%. Paulson usually leaves his home at 8:15 and travels at a certain speed to reach office on time. One day he travelled at $\frac{3}{5}$ of his usual speed and hence was 45 minutes late. How much time does Paulson usually take to reach his office?

- (a) $1\frac{1}{2}$ hours (b) $1\frac{1}{3}$ hours
(c) $1\frac{1}{4}$ hours (d) $1\frac{1}{8}$ hours

38. Find the value of $\left[\left(12 \div \frac{4}{3}\right) \times \left\{6 \div 4 \times \left(\frac{12-7}{6}\right)\right\} \div \{4 \times 6 \div 3\}\right]$.

- (a) $1\frac{15}{32}$ (b) $1\frac{13}{32}$
(c) $1\frac{11}{32}$ (d) $1\frac{17}{32}$

39. Which of the following fractions is not equal to $\frac{13}{19}$?

- (a) $\frac{39}{57}$ (b) $\frac{91}{133}$
(c) $\frac{195}{247}$ (d) $\frac{208}{304}$

40. The simple interest received on a sum of ₹7500 in 4 years is ₹1800. Find the annual rate of interest.

- (a) 4% (b) 5%
(c) 3% (d) 6%

41. Abhay and Shreya alone can finish a piece of work in 42 minutes and 70 minutes respectively. Starting with Abhay, they work in turns for one minute until the work is completed, only the one

who works last is allowed to work for less than a minute. How much time will both take to finish the work?

- (a) 52 min 24 sec (b) 52 min 30 sec
(c) 52 min 36 sec (d) 52 min 40 sec

42. The discounted price of a toy was ₹1470. If the discount was 16%, what was the marked price of the toy?

- (a) ₹1800 (b) ₹1750
(c) ₹1720 (d) ₹1680

43. $\frac{840}{x}$ and $\frac{960}{x}$ are both positive integers and so is x . What is the maximum possible value of x ?

- (a) 140 (b) 210
(c) 120 (d) 240

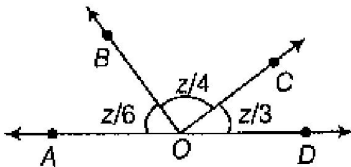
44. Find the largest number which on dividing 2000 and 2200 leaves remainders 22 and 38 respectively.

- (a) 39 (b) 36
(c) 42 (d) 46

45. If the sum of the numbers coming immediately after any two given numbers is 40 and the difference between the two given numbers is 6, then find the two given numbers.

- (a) 24 and 14 (b) 22 and 16
(c) 25 and 13 (d) 22 and 18

46. In the attached figure, find the value of z



- (a) 180° (b) 216°
(c) 240° (d) 40°

47. Simplify the following expression.

$$\frac{\cos A}{1 + \sin A} + \frac{1 + \sin A}{\cos A}$$

- (a) $2\sin A$ (b) $2\cos A$
(c) $2\sec A$ (d) $1 + 2\sin A$

48. The average marks of 16 girls and 14 boys of a class are 24 and 32 respectively. Find the average marks of the whole class to the nearest decimal place.

- (a) 28.7 (b) 26.7
(c) 28 (d) 27.7

49. If it is 11:20 on a clock, then what will be the measure of the angle between the hour and minute hands?

- (a) 150° (b) 160
(c) 135 (d) 140°

50. Two taps A and B can fill a tank in 3 hours and 5 hours respectively. Tap C can empty it in 2 hours. Accordingly, if all the three taps are open, then in how many hours will the whole tank be filled?

- (a) 30 (b) Cannot be filled
(c) 10 (d) 15

51. The day before yesterday was Sunday. What is the day after tomorrow?

- (a) Tuesday (b) Wednesday
(c) Thursday (d) Friday

52. A clock shows 4:40 when looked at in the mirror. What is the correct time?

- (a) 8:40 (b) 8:20
(c) 7:40 (d) 7:20

53. Select the option in which the letters given below when filled in the blanks in the letter series in the same order from left to right will complete the series.

BA _ D L _ AM _ LBA _ FL BA _ GL _

- (a) MBEMM (b) MBMBL
(c) MMMCL (d) MCEMM

54. In a certain code language SHAKE is written as TKFRN and JUICE is written as KXNJN. How will SWEET be written in that code language?

- (a) TZJLC (b) TZZLC
(c) TZJLK (d) TTJLC

55. Four books P, Q, R and S are placed on a table. R is placed above Q and S is placed below P. R is not at the top. Which book is at the bottom?

- (a) P (b) Q
(c) R (d) S

56. Select the missing letter (?) in the given series
A, D, G, J, M, P, ?

- (a) Q (b) R
(c) St (d) T

57. Six friends Atiq, Bijoy, Kamal, Faya, Esha and Dhruv are sitting in a straight line facing north (but not necessarily in the same order). Faya is sitting third to the left of Bijoy. Atiq is sitting third to the right of Kamal. Eesha is sitting second to the right of Bijoy. Faya is sitting at the left end. Who is sitting at the right end?

- (a) Eesha (b) Dhruv
(c) Atiq (d) Kamal

58. Choose the one from the following which is different from the other three options.

- (a) Lotus (b) Rose
(c) Jasmine (d) Sunflower

59. What will be the next term in the following number series?

9753186429753186497531864975

- (a) 8 (b) 3
(c) 4 (d) 6

60. In a code language 'hay in the sack' is written as 'it fn en ho', 'the sack is full' is written as 'en ho go bu' and 'the hay is full' is written as 'en bu fn go'.

How will 'sack' be written in the same code language?

- (a) it (b) fn
(c) ho (d) en

61. CJPT : FNUZ :: HKMQ : ?

- (a) KOPW (b) KORV
(c) KOQW (d) KORW

62. 24: 60 :: 210: ?

- (a) 420 (b) 525
(c) 505 (d) 425

63. Sunrays : Vitamin D :: Lemon : ?

- (a) Citric acid (b) Pickle
(c) Carbohydrate (d) Vitamin B

64. What will come in place of question mark (?) in the following series?

1000, 200, 40, ?

- (a) 20 (b) 8
(c) 10 (d) 15

65. In the following question two statements are given followed by two conclusions I and II. Assuming the given statements to be true, even if they seem to be at variance with commonly known facts, decide which of the given conclusions logically follows from the given statements?

Statement Some musicians are guitarists. All I guitarists are artists.

Conclusion

I. Some artists are guitarists.

II. Some musicians are not artists.

- (a) Both conclusion I and II follow
(b) Neither conclusion I nor II follows
(c) Only conclusion I follows
(d) Only conclusion II follows

66. Six students are seated around a circular table facing the centre of the table (but not necessarily in the same order). Ram is seated immediately next to both Shyam and Kamal. Karthik is sitting right next to Kamal. Diksha is sitting right next to Karthik on his left and Aditya is sitting right next to Shyam. Kamal is sitting right next to which of the following two people?

- (a) Ram and Karthik
- (b) Shyam and Diksha
- (c) Karthik and Diksha
- (d) Shyam and Ram

Directions (Q. No. 67 and 68) From the following options, choose the option that will complete the sequence.

67. 3, 15, 4, 16, 5, 17, 6, ?

- (a) 11
- (b) 13
- (c) 10
- (d) 18

68. R, O, L, I, F, ?

- (a) C
- (b) A
- (c) E
- (d) D

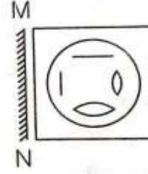
69. If in the following equation the positions of '+' and '-' are interchanged and also the positions of 'x' and '÷' are interchanged, then what will come in place of question mark (?) in the equation?

$$15 \div 27 \times 3 + 36 - 12 = ?$$

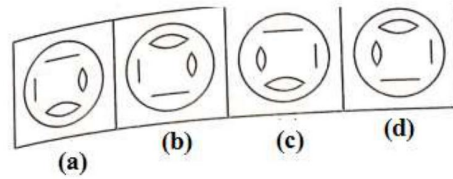
- (a) 111
- (b) 105
- (c) 95
- (d) 110

70. If a mirror is placed on the line MN, then which of the answer figures will be the right image of the question figure? Question Figure

Question Figure



Answer Figure



71. Siddharth leaves his house and drives 24 km towards north and then he turns right and drives 29 km. After that he again turns right and drives 67 km. Then he turns left and drives 32 km. He finally turns left and drives 43 km to reach his destination. How far is Siddharth from his home?

- (a) 74 km
- (b) 62 km
- (c) 61 km
- (d) 72 km

72. Three statements are given followed by three conclusions I, II and III. Consider the statements as true even if they seem to be at variance with commonly known facts and then tell which of the conclusions logically follow(s) from the statements?

Statement All products are useful. Nothing useful is hard. All hard are durable.

Conclusions

- I. Some products are durable.
- II. Some durable are useful.
- III. All durable are hard.

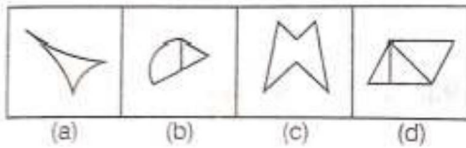
- (a) None of the conclusions follow
- (b) Conclusion I and III follow
- (c) Conclusion I and II follow
- (d) Conclusion II and III follow

73. Which of the answer figures is embedded in the question figure?

Question figure



Answer figure



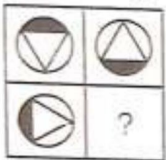
74. Two statements are given below followed by four conclusions given in the options. Which of the conclusions is true based on the given statements?

Statement $P < Q < R = T, M < T = N$

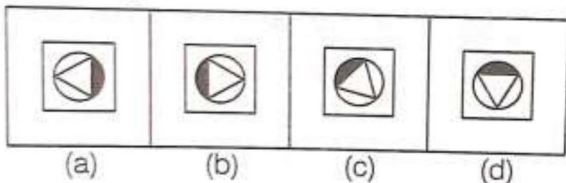
- (a) $P > M$ (b) $M > Q$
(c) $M < R$ (d) $M < Q$

75. Which answer figure will complete the pattern of the question figure?

Question figure



Answer figure



76. In a row of children, Rohit is 11th from the left and Kavya is 17th from the right. When both of them interchange their positions, Rohit becomes 13th from the left. What will be Kavya's new position from the right?

- (a) 19th (b) 29th
(c) 11th (d) 21st

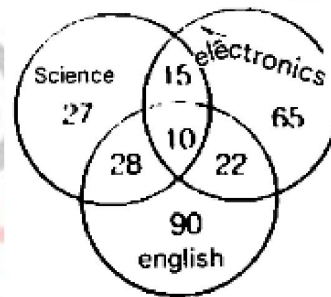
77. Answer the question based on the following letter series.

KDNCICLOASCSOPMCDKCVNDMM

How many consonants are there between the fifth letter from the right end and the sixth letter from the left end in the given letter series?

- (a) Three (b) Eleven
(c) Eight (d) Thirteen

78. The graph shows the number of students who failed in Chemistry, Electronics and English in different examinations. The total number of students who appeared in the examination was 600. What is the percentage of students who failed in at least two subjects?



- (a) 12.5% (b) 1.25%
(c) 12.05% (d) 12%

79. How many such pairs of letters are there in the word FUNCTIONAL which have as many letters between them in the word as they have in the English alphabet?

- (a) One (b) Two
(c) Three (d) More than three

80. Pointing to Nikita, Pranav said, "Her father is the son of my mother's sister." How is Nikita related to Pranav?

- (a) Cousin (b) Niece
(c) Sister (d) Grandmother

81. Which of the following categories is not provided to the beneficiary under Pradhan Mantri Mudra Yojana?

- (a) Infant (b) Teenager
(c) Young (d) Adult

82. To commemorate which event did the Portuguese hand over Bombay to the British?

- (a) Freedom of the Portuguese from Spain
(b) Marriage of Charles II with Portuguese princess Catherine of Braganza
(c) Crushing of the Spanish Armada by the British in 1588 A.D.
(d) Treaty of Madrid in 1630 A.D.

83. Rajiv Gandhi's death day is celebrated as

- (a) Martyr's Day
(b) National Integrity Day
(c) Secularism Day
(d) Anti-Terrorism Day

84. Who started the practice of 'Mansabdari'?

- (a) Babar (b) Jahangir
(c) Akbar (d) Sher Shah Suri

85. The essential characteristic of monetary inflation is

- (a) Absence of black marketing
(b) Presence of black marketing
(c) Fall in the value of currency and rise in the price of goods
(d) None of the above

86. Who was the first permanent President of the Constituent Assembly?

- (a) Dr. Rajendra Prasad
(b) Dr. Sachchidanand Sinha
(c) M.N. Roy

(d) Sardar Vallabhbhai Patel

87. Who among the following was not the leader of the extremist group?

- (a) Bal Gangadhar Tilak
(b) Bipin Chandra Pal
(c) Gopal Krishna Gokhale
(d) Lala Lajpat Rai

88. Which of the following is the largest lake in the continent of Asia?

- (a) Balkhash Lake (b) Baikal Lake
(c) Caspian Sea (d) Arabian Sea

89. Which state has the highest representation in Lok Sabha and Rajya Sabha?

- (a) Uttar Pradesh (b) West Bengal
(c) Bihar (d) Maharashtra

90. The capital of Andaman and Nicobar Islands is

- (a) Port Blair (b) Diu
(c) Silvassa (d) None of these

91. 38th parallel divides which of the following countries?

- (a) India and Pakistan
(b) United States of America and Canada
(c) North Korea and South Korea
(d) Germany and France

92. 'Barkari' are devotees of which God?

- (a) Lord Rama
(b) Lord Shiva
(c) Lord Vitthoba of Pandharpur
(d) Sai of Shirdi

93. How many members are there in the Estimates Committee?

- (a) 20 (b) 25

(c) 30

(d) 35

94. Which of the following hills is called the meeting point of Eastern and Western Ghats?

- (a) Nilgiri Hills (b) Shevaroy Hills
(c) Cardamom Hills (d) Annamalai Hills

95. The name of the handicraft centers of Madhya Pradesh is

- (a) Koyal (b) Mayur
(c) Kingfisher (d) Mriganayani

96. Which of the following is the longest day in the Northern Hemisphere?

- (a) 21 March (b) 21 June
(c) 21 May (d) 21 September

97. 'Cannes Award' is given in which field?

- (a) Film (b) Journalism
(c) Literature (d) Economics

98. Which of the following was the main source of livelihood for the people of Indus Valley Civilization?

- (a) Agriculture and trade
(b) Animal husbandry
(c) Fisheries
(d) None of the above

99. According to the Preamble of the Constitution, the state will protect the dignity of every individual, this objective is achieved by

- (a) By giving every individual the right to adequate means of livelihood
(b) By giving equal pay for equal work to every individual without gender discrimination
(c) By giving equal basic rights to every citizen
(d) By providing proper and humane working conditions to every individual

100. Who among the following participated in the Kakori incident?

- (a) Khudiram Bose (b) Bhagat Singh
(c) Ramprasad Bismil (d) None of the above