RRB GROUP D

TEST SERIES

DATE- __/__/__

DAY- _____

INSTRUCTION FOR CANDIDATE

TEST SERIES NO.

SG Set - 27

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 monomer of natural rubber is

(a) Neoprene   (b) Isoprene

(c) Terylene   (d) Orlon

2. The motion of a freely falling object is an example of ...... motion.

(a) Uniform acceleration

(b) Non-uniform acceleration

(c) Constant velocity

(d) Constant speed

3. What is the chemical formula of sulphuric acid?

(a) H_2SO_4 (b) H_2SO_3
(c) H_3SO_3 (d) H_3SO_4

4. What is the SI unit of pressure?

(a) Newton   (b) Weber

(c) Pascal   (d) Henry

5. The oxide of which of the following turns red litmus blue?

(a) Magnesium   (b) Phosphorus

(c) Sulphur   (d) Carbon

6. Which of the following is most compressible?

(a) Solid   (b) Liquid

(c) Gas   (d) Solid and Liquid

7. Which of the following microorganisms are the cause of serious diseases like polio and chicken pox?

(a) Bacteria   (b) Protozoa

(c) Algae   (d) Virus

8. The property of metals in which they can be drawn into wires is called ·······.

(a) Malleability (b) Viscosity

(c) Ductility   (d) Tensile Strength

9. Who discovered the circulatory system?

(a) Thomas Edison   (b) William Harvey

(c) Robert Hooke   (d) Robert Boyles

10. Night blindness is caused by the deficiency of which of the following vitamins?

(a) Vitamin – B   (b) Vitamin - C

(c) Vitamin – K   (d) Vitamin - A

11. On which principle does a hydraulic lift work?

(a) Newton's Principle

(b) Pascal's Principle

(c) Archimedes' Principle

(d) Joule's Principle

12. What are the main components of bronze alloy?

(a) Copper and Zinc

(b) Copper and Tin

(c) Zinc and Nickel

(d) Aluminium and Nickel

13. Who developed the theory of relativity?

(a) Isaac Newton   (b) Charles Darwin

(c) Marie Curie   (d) Albert Einstein

14. If objects appear bigger and upside down in a rear-view mirror, then which type of mirror has been used?

(a) concave   (b) convex

(c) cylindrical   (d) perspective

15. Which of the following is a characteristic of exothermic reaction?

(a) emission of heat

(b) absorption of heat

(c) no change in temperature

(d) None of the options is correct

16. Choose the set of ruminant animals from the following animals.

(a) buffalo, cow, deer

(b) Cow, deer, dog

(c) Cat, buffalo, deer

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(d) buffalo, cow, dog

17. Consider the following terms related to cells.

I. Chromosomes   II. Jean

III. Nucleolus   IV. Ribosomes

Which of the following are the parts of nucleus of a cell

(a) III and IV   (b) II and III

(c) I, II and III   (d) I and III

18.Match the organisms in Column I with their functions given in Column II

Column I	Column II
A. Lactobacillus	I. Nitrogen-fixation
B. Protozoa	II. AIDS
C. Rhizobium	III. Malaria
D. Virus	IV. Setting of curd

Code

A B C D

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

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

19. 'Sonar' technique is used for the following

(a) To measure the distance, direction and speed of bodies situated in water

(b) To measure the distance, direction and speed of bodies situated in air

(c) To measure the distance and direction of bodies situated in water

(d) To measure the direction and speed of bodies situated in air

20. The composition percentage of CaO and SiO_2 in Portland cement is

(a) 85-90% and 40-45%

(b) 40-45% and 10-15%

(c) 60-68% and 17-24%

(d) None of the above

21. Natural fibres are

(a) Cotton   (b) Wool

(c) Silk   (d) All of these

22. Which of the following is/are aromatic compound(s)?

(a) Benzene and chlorobenzene

(b) Phenol

(c) Aniline

(d) All of the above

23. Chlorine is used

(a) as an antibiotic

(b) as a medicine for infected patients

(c) as an antipyretic

(d) as an antiseptic

24. Which of the following statements is correct?

I. The range of a clinical thermometer is 35°C to 42°C.

II. The range of a laboratory thermometer is usually -10°C to 110°C.

(a) Only I   (b) Only II

(c) Both I and II   (d) None of these

25. Which of the following statements are true regarding the image formed on a plane mirror?

(a) The image is formed at the same distance as the object

(b) The image is lateral inverted

(c) The image is virtual

(d) All of the above

26. The ratio of the ages of P and Q is 2:3. If Q is 3 years older than P, what will be P's age after 2 years?

(a) 2 years   (b) 4 years

(c) 8 years   (d) 9 years

27. Find the average of the first 10 multiples of 3.

(a) 30 (b) 15

(c) 18 (d) 16.5

28. Krishna scored 75 marks in the first semester and 90 marks in the second semester. What is the percentage improvement in Krishna's result?

(a) 15 (b) 20

(c) 25 (d) 30

29. Three cubes of sides 3 m, 4 m and 5 m are melted to form a new cube. The side of the new cube is

(a) 12 m (b) 10 m

(c) 8 m (d) 6 m

30. A certain sum of money gives an interest of ₹3840 in 4 years at an interest rate of 8%. Find the amount

(a) ₹8000 (b) ₹12000

(c) ₹16000 (d) ₹19200

31. The speed of a boat in still water is 20 km/hr and the speed of the current is 15 km/hr. The distance covered upstream in 1 hour is

(a) 15 km (b) 10 km

(c) 3 km (d) 5 km

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

(a) Tuesday (b) Wednesday

(c) Thursday (d) Friday

33. A clock shows 4:40 when seen in the mirror. What is the correct time?

(a) 8:40 (b) 8:20

(c) 7:40 (d) 7:20

34. A person travels a distance of 2 km at a speed of 6 km/hr. He returns at a speed of 4 km/hr. What is his average speed?

(a) 4.5 km/hr (b) 4.8 km/hr

(c) 5 km/hr (d) 5.1 km/hr

35. In what ratio should a shopkeeper mix two types of tea leaves priced at ₹15 and ₹20 per kg so that the price of the mixed tea becomes ₹16.50 per kg?

(a) 3:7 (b) 5:7

(c) 7:3 (d) 7:5

36. A train of length 260 m crosses a bridge of length 40 m in 12 seconds. Find the velocity of the train.

(a) 90 km/hr (b) 25 km/hr

(c) 60 km/hr (d) 100 km/hr

37. Divide 100 by half then multiply by 5 and subtract 20. State the result.

(a) 1000 (b) 980

(c) 270 (d) 230

38. A starts a business by investing ₹40000. B joins his business after 4 months in the ratio of 6 : 5. After one year, they share the profit. How much did B invest?

(a) ₹50000 (b) ₹48000

(c) ₹45000 (d) ₹60000

39. A hall is 20 m long and 15 m wide. There is a 2.5 m wide verandah around it. What will be the total cost of flooring the verandah at the rate of ₹3.50 per square meter?

(a.) ₹500 (b) ₹600

(c) ₹700 (d) ₹800

40. A pipe can fill a tank in one hour. Due to a leak, it takes 1 hour 10 minutes to fill the tank. In how much time will the tank be emptied completely due to this leak?

(a) 5 (b) $5\frac{5}{19}$

(c) $4\frac{5}{19}$ (d) $5\frac{10}{19}$

41.A shopkeeper sells his goods at cost price, but he uses the wrong weight of 950 grams. What is his profit percentage?

(a) 5 (b) $5\frac{5}{19}$

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(c) $4\frac{5}{19}$

(d) $5\frac{10}{19}$

42.50 persons attend a party. Each person shakes hands with each person. How many handshakes were shaken?

(a) 1225

(b) 2450

(c) 100

(d) 500

43.The length, breadth and height of a room are in the ratio 5:4:2. If the length is increased by 20% and the breadth by 25%; When the height is reduced by 25%, the total area of the four walls of the room ………….

(a) will decrease by 1/12 of the initial area

(b) will increase by 1/5 of the initial area

(c) will increase by 1/12 of the initial area

(d) will decrease by 1/5 of the initial area

44. Tuhin and Pranab can finish a piece of work alone in 42 minutes and 70 minutes respectively. Starting from Tuhin, both of them worked in turns for one minute each till the end of the work. Only the one who works last is allowed to work for less than 1 minute in his last shift. How much time will both of them take to finish the work?

(a) 53 minutes

(b) 52 minutes 24 seconds

(c) 52 minutes 30 seconds

(d) 52 minutes 40 seconds

45.Ravindra leaves his home every morning at 8:00 and reaches office at 9:30. One day he left his home at 8:00 but travelled one-third of the distance at 3/4 of the usual speed. If he reached office on time, then at how many times his usual speed did Ravindra travel for the remaining part of the journey?

(a) $\frac{4}{3}$

(b) $\frac{5}{4}$

(c) $\frac{6}{5}$

(d) $\frac{3}{2}$

46. At 4% annual simple interest rate, the interest on ₹ 2500 for 3 years will be

(a) ₹ 240

(b) ₹ 250

(c) ₹ 288

(d) ₹ 300

47. At 10% annual compound interest rate, the interest on ₹ 1400 for 2 years will be

(a) ₹ 288

(b) ₹ 294

(c) ₹ 302

(d) ₹ 308

48. Ramesh earns a profit of 24% by selling an item for ₹ 434. At what price did Ramesh buy the item:

(a) ₹350

(b) ₹360

(c) ₹340

(d) ₹375

49.Choose the most appropriate option. What is the difference between 4/5 and 2/3?

(a) $\frac{4}{15}$

(b) $\frac{2}{15}$

(c) $\frac{2}{2}$

(d) $\frac{2}{5}$

50.After a discount of 12%, a toy was sold for ₹ 132. What was the marked price of the toy?

(a) ₹140

(b) ₹175

(c) ₹ 150

(d) ₹ 160

51. Introducing a man, a woman said, "He is the only son of my mother's mother." How is the woman related to the man?

(a) Mother

(b) Cousin

(c) Niece

(d) Wife

52. If B says that his mother is the only daughter of A, how is A related to B?

(a) Son

(b) Father

(c) Uncle

(d) Brother

Nirdensha (Q. No. 53-55) Find the missing number (?) in the following questions.

53. 6, 11, 21, 36, 56, ?

(a) 42

(b) 51

(c) 81

(d) 91

54. 8,14,26,44,68, ?

(a) 71

(b) 78

(c) 84

(d) 98

55

51	11	61
64	30	32
35	?	43

(a) 25   (b) 27

(c) 32   (d) 37

56. If today is Wednesday, what will be the day after 84 days?

(a) Monday   (b) Tuesday

(c) Wednesday   (d) Sunday

57. Mohini went to watch a movie 9 days ago. She goes to watch movies only on Thursdays. What day of the week is today?

(a) Thursday   (b) Saturday

(c) Sunday   (d) Tuesday

Directions (Q.No. 58 and 59) Select the missing term (?) from the given options.

58. A, C, F, J, ?, ?

(a) L, P   (b) M,O

(c) O,U   (d) R, V

59. C, F, I, L, O, ?

(a) R   (b) S

(c) T   (d) U

60. Find the odd one

(a) Bengaluru   (b) Kolkata

(c) Puri   (d) Mumbai

61. If ' + ' is ' x '; - ' is ' + '; ' × ' is ' ÷ ' and ' ÷ ' is ' - ', then answer the following question based on this information

15×5+3+1-1=?

(a) -1   (b) -2

(c) 3   (d) 1

62. If in a certain code INSTITUTION is written as NOITUTITSNI, how will PERFECTION be written according to that code?

(a) NOICTEFREP   (b) NOITCEFERP

(c) NOITCEFRPE   (d) NOITCEFREP

63. According to a certain code GIGANTIC is written as GIGTANCI. How will MIRACLES be written according to that code?

(a) MIRLCAES   (b) MIRLACSE

(c) RIMCALSE   (d) RIMLCAES

Instructions (Q. No. 64 and 65) Find the missing number (?) from the following options.

64. 3, 5, 9, 17, 33, 65, ?

(a) 129   (b) 128

(c) 126   (d) 132

65. 840, ?, 420, 140, 35, 7

(a) 408   (b) 840

(c) 480   (d) 804

Directions (Q. No. 66 and 67) In the following questions, there is a definite relationship between two words given on the left side of the symbol (::) and a word is given on the right side of the symbol (::); while you have to find the other word with it from the options so that these two word pairs can form the same relationship as the first word pair. Choose the correct option.

66. Man : Biography : : Nation : ?

(a) Leader   (b) Public

(c) Geometry   (d) History

67. Car : Garage : Aeroplane : ?

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(a) Port   (b) Depot

(c) Hangar   (d) Harbour

Instructions (Q. Nos. 68-70) Answer the questions based on the information given below.

(i) There are three pillars on each side of the road.

(ii) These six pillars are A, B, C, D, E and C.

(iii) These pillars are of different colours viz. golden, silver, metallic, black, bronze and white.

(iv) The pillars are of different heights.

(v) E, which is the tallest, is exactly opposite to the golden coloured pillar.

(vi) F, the black coloured pillar, is between A and D.

(vii) The shortest pillar is exactly opposite to the metallic coloured pillar.

(viii) C, the bronze coloured pillar, is exactly opposite to A.

(ix) B, the metallic coloured pillar, is exactly opposite to F.

(x) A, the white coloured pillar, is taller than C but shorter than D and B.

68. What is the colour of the pillar diagonally opposite to the bronze coloured pillar?

(a) White   (b) Silver

(c) Metallic   (d) Golden

69. Which is the second tallest pillar?

(a) A   (c) B

(b) D   (d) None of these

70. What is the colour of the tallest pillar?

(a) Golden   (b) Silver

(c) Bronze   (d) None of these

71. Just as 'molecule' is related to 'atom', in the same way 'cell' is related to what?

(a) Organism   (b) Battery

(c) Nucleus   (d) Matter

72. If 1st October is Sunday, then which day will be 1st November?

(a) Monday   (b) Wednesday

(c) Tuesday   (d) Thursday

73. Just as 'command' is related to 'good order', in the same way 'confusion' is related to what?

(a) Discipline   (b) Problem

(c) Clarity   (d) Chaos

74. If the brother of Y's son's son is X, then tell how X is related to Y?

(a) Brother   (b) Cousin

(c) Grandson   (d) Son

75. Pointing to a photograph, a woman said to Pramod, "I am the only daughter of this woman and her son is your maternal uncle". How is the speaker related to Pramod's father?

(a) Sister-in-law

(b) Wife
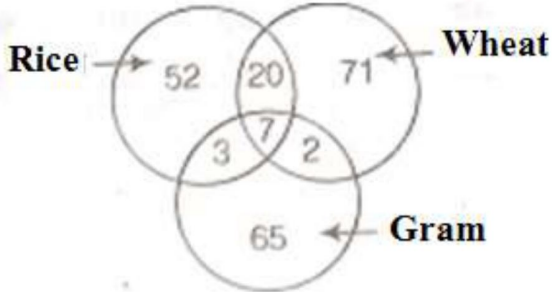
(c) None of 'a' or 'b'

(d) Data is incomplete

76. The question given below consists of a statement followed by two arguments I and II. You have to decide which of the arguments is/are 'strong'? Statement Should the government ban the export of pulses?

Arguments

I. Yes, this will reduce the price of pulses in India.

II. No, this decision will lead to loss of jobs in the export industry.

(a) Only argument I is strong

(b) Only argument II is strong

(c) Neither argument I nor argument II is strong

(d) Both arguments I and II are strong

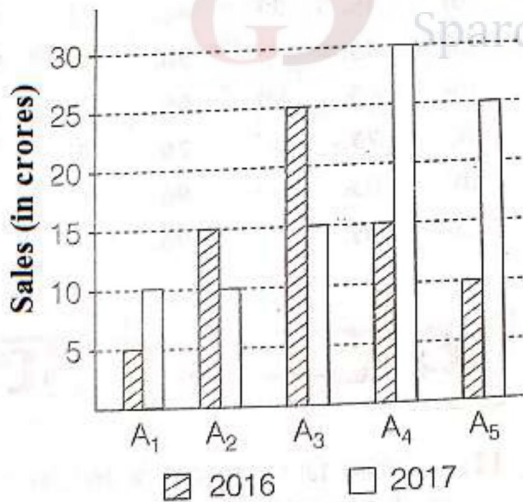77.The following Venn diagram shows information about traders who trade

How many traders trade in wheat and gram?

(a) 2   (b) 138

(c) 136   (d) 73

78. Study the following chart carefully and answer the question.

The bar chart shows the information about the sales of wrist watches from five branches A_1, A_2, A_3, A_4 and A_5 of company 'ABC' in the year 2016-2017.

What is the difference in the sales in the year 2017 from the total sales (in crores) of all the branches for the year 2016?
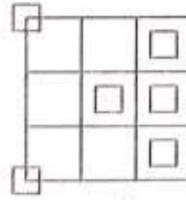
(a) 10   (b) 20

(c) 15   (d) 7.5

79. In a row of boys, Vijay is tenth from the left end and Vikram is seventh from the right end. If there are eleven boys between Vijay and Vikram, then how many boys are there in the row?

(a) 28   (b) 36

(c) 43   (d) 22

80. What is the number of squares in the following figure?

(a) 22   (b) 20

(c) 18   (d) 24

81. Articles 25 to 28 of the Indian Constitution are related to what?

(a) Right to Education   (b) Right to Equality

(c) Right to Freedom   (d) Freedom of Religion

82. Which of the following writs literally means 'order'?

(a) Writ of Habeas Corpus

(b) Writ of Prohibition

(c) Mandamus

(d) Writ of Eviction

83. Jawahar Tunnel is located in

(a) Uttarakhand   (b) Arunachal Pradesh

(c) Himachal Pradesh (d) Jammu and Kashmir

84. Which ruler built the 'Vijay Stambh' (Tower of Victory) to commemorate the victory over Mohammad Khilji?

(a) Rana Pratap   (b) Rana Kumbha

(c) Rana Sangram Singh (d) Chandragupta Maurya

85. What is the old name of Singapore?

(a) Temasek   (b) Myanmar

(c) Ceylon   (d) Bohemia

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86. Who started the 'Direct Action Campaign' in August, 1946?

(a) Mahatma Gandhi

(b) Dr. B. R. Ambedkar

(c) Muslim League

(d) Royal Indian Navy

87. India's largest river island Majuli is located in which state?

(a) Maharashtra   (b) Assam

(c) Odisha   (d) Madhya Pradesh

88. Which port city in India is called the 'Queen of the Arabian Sea'?

(a) Kandla   (b) Kochi

(c) Mumbai   (d) Mormugao

89. By which constitutional amendment provision was made for free and compulsory education for children aged 6-14 years?

(a) 87th (b) 86th

(c) 90th (d) 84th

90. Which of the following is not a Kharif crop?

(a) Rice   (b) Gram

(c) Maize   (d) Millet

91. In which of the following cities is the Central Rice Research Institute located?

(a) New Delhi

(b) Lucknow (Uttar Pradesh)

(c) Cuttack (Odisha)

(d) Pusa (Bihar)

92. During the reign of which ruler was the first Buddhist Council held?

(a) Bimbisara   (b) Ashoka

(c) Ajatashatru   (d) Kanishka

93. What is the specialty of first generation computer?

(a) Integrated circuit   (b) Vacuum tube

(c) Transistor   (d) Optical fiber

94. Who suggested to implement GST in India?

(a) Vijay Kelkar Committee

(b) Rangarajan Committee

(c) Tendulkar Committee

(d) Majumdar Committee

95. What is the maximum number of members in Rajya Sabha?

(a) 250 members   (b) 280 members

(c) 545 members   (d) 400 members

96. In which year was the anti-defection law passed?

(a) 1986   (b) 1985

(c) 1989   (d) 1990

97. 'Ryder Cup' is related to which sport?

(a) Baseball   (b) Basketball

(c) Football   (d) Golf

98. Who calls the joint meeting of Rajya Sabha and Lok Sabha?

(a) President

(b) Prime Minister

(c) Speaker of Lok Sabha

(d) Vice President

99. What should be the age of a candidate for membership of Gram Panchayat?

(a) 18 years   (b) 30 years

(c) 21 years   (d) 25 years

100. In which continent is the Sahara Desert located?

(a) Asia   (b) Africa

(c) Australia   (d) South America