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RRB GROUP D

TEST SERIES

DATE- __/__/__

DAY- _____

INSTRUCTION FOR CANDIDATE

TEST SERIES NO.

SG Set - 29

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. Members of Rhodophyceae are often called algae.

- (a) Green (b) Brown
(c) Red (d) Yellow

2. Which of the following is another name for borax?

- (a) Copper sulphate
(b) Oxygen
(c) Copper
(d) Magnesium oxide

3. Some organisms can tolerate wide ranges of temperatures and grow well in them. These are called

- (a) Osmotic (b) Eurythermal
(c) Stenothermal (d) Hydrothermal

4. What is the name of the hormone produced by the thymus gland?

- (a) Thyroxine (b) Auxins
(c) Cytokinins (d) Thymosin

5. Photosynthesis takes place in the presence of chlorophyll and

- (a) Water (b) Nutrients
(c) Carbon dioxide (d) Sunlight

6. Soap bubble acquires spherical shape due to

- (a) Inertia (b) Pressure
(c) Surface tension (d) Viscosity

7. Which gas contributes the most to global warming?

- (a) Methane
(b) Chlorofluorocarbon (CFC)
(c) Nitrogen dioxide
(d) Carbon dioxide

8. What is the chemical formula of sodium chloride (salt)?

- (a) NaCl_2 (b) NaCl
(c) Na_2Cl (d) Na_2C

9. Which of the following commercial products is obtained from Gelidium and Gracilaria, which is

used in culturing microorganisms and in making ice cream and jelly?

- (a) Agar (b) Chlorella
(c) Spirulina (d) Gymnosperm

10. If the mass of an object is 60 kg, what will be its weight on the moon? (N = Newton)

- (a) 60N (b) 600 N
(c) 100N (d) 10 N

11. What else is formed along with salt in the reaction of acid and base?

- (a) Hydrogen gas (b) Oxygen gas
(c) Carbon dioxide (d) Water

12. is the largest phylum in the animal kingdom, which also includes insects.

- (a) Annelida (b) Chordata
(c) Arthropoda (d) Platyhelminthes

13. Who discovered insulin?

- (a) Sir Alexander Fleming
(b) Frederick Banting
(c) James Watt
(d) Sir F.G. Hopkins

14. Reflection from a smooth surface like a mirror is called reflection.

- (a) Regular (b) Irregular
(c) Diffuse (d) Fused

15. What is the unit of measuring resistance?

- (a) Ohm (b) Farad
(c) Henry (d) Weber

16. Which of the following carries impure blood to the human heart?

- (a) Aorta
(b) Pulmonary vein
(c) Pulmonary arteries
(d) Mahasira

17. Which of the following is an ore of aluminium?

- (a) Galena or ordinary lead
(b) Cryolite
(c) Cinnabar
(d) Rock salt

18. The time taken by a simple pendulum to complete one oscillation is called?

- (a) Maximum speed (b) Average speed
(c) Time period (d) Time interval

19. Metals react with sodium hydroxide to produce...

- (a) Oxygen gas (b) Sodium
(c) Water (d) Hydrogen gas

20. Plant cell wall is mainly composed of?

- (a) Lipids (b) Vitamins
(c) Cellulose (d) Proteins

21. Fog, cloud and mist are examples of:

- (a) Aerosol (b) Solid sol
(c) Foam (d) Gel

22. When an ant bites, which acid is secreted?

- (a) Hydrochloric acid
(b) Formic acid
(c) Acetic acid
(d) Phosphoric acid

23. Which metal is responsible for the disease called Itai-Itai?

- (a) Cadmium (b) Nickel
(c) Chromium (d) Mercury

24. Nephron is related to which of the following systems of the human body?

- (a) Circulatory system
(b) Excretory system
(c) Reproductive system
(d) Respiratory system

25. Which vitamin is obtained from sun rays?

- (a) Vitamin – A (b) Vitamin-C
(c) Vitamin – K (d) Vitamin-D

26. If the price of 12 chairs and 15 tables is ₹58968, then what will be the price of 4 chairs and 5 tables?

- (a) ₹19656 (b) 39312
(c) ₹29484 (d) None of these

27. What is the smallest number which when divided by 5, 10, 12 and 15 respectively leaves a

remainder of 2 in each case and when divided by 7 leaves a remainder of zero?

- (a) 91 (b) 175
(c) 189 (d) 182

28. If the price of 12 kg wheat is ₹228, then what will be the price of 112 kg wheat?

- (a) ₹2128 (b) ₹2478
(c) ₹2298 (d) ₹2300

29. A number when added with 3 is divisible by 36, 45 and 50, the smallest such number is

- (a) 798 (b) 897
(c) 986 (d) 1797

30. What is the perfect square number that comes just before 9909?

- (a) 9900 (b) 9801
(c) 9908 (d) 9899

31. Vijay and Sushil can do a work in 15 days and 10 days respectively. Both of them started the work together but Vijay left the work after some days and Sushil completed the remaining work in 5 days. After how many days did Vijay leave the work?

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

32. 400 mangoes were bought at ₹ 125 per hundred and sold at a profit of ₹ 100. The selling price per dozen is

- (a) ₹ 50 (b) ₹ 18
(c) ₹ 15 (d) ₹ 25

33. If ₹ 1 gives simple interest of ₹ 9 in 60 years, then the rate of interest per annum is

- (a) $13\frac{1}{3}\%$ (b) 12%
(c) 15% (d) 18%

34. Simplify $0.6 \times 0.06 = ?$

- (a) 0.36 (b) 0.0036
(c) 0.036 (d) 3.6

35. If $(\sqrt{3})^x = 1$, then the value of x is

- (a) 0 (b) $\sqrt{3}$
(c) 1 (d) $\frac{1}{\sqrt{3}}$

36. The value of $(\sqrt{1})^2 + (\sqrt{2})^2 + (\sqrt{3})^2 + (\sqrt{4})^2$ is

- (a) 6 (b) 8
(c) 10 (d) 9

37. Rasheed can complete a piece of work alone in 15 days; while Kaushik takes 21 days to complete the same work. How many days will they take to complete the same work if they work together?

- (a) $8\frac{3}{4}$ (b) $9\frac{1}{4}$
(c) $8\frac{1}{4}$ (d) $9\frac{3}{4}$

38. A ship developed a hole at a distance of 15 km from the shore but could still travel towards the shore at a speed of 10 km/h for a maximum period of 18 minutes. A rescue boat sent from the shore would take 6 minutes to reach the ship and rescue the passengers. What should be the minimum speed of the rescue boat to successfully rescue all the people on board?

- (a) 72 km/h (b) 70 km/h
(c) 68 km/h (d) 65 km/h

39. The length of one side of an equilateral triangle is 21 cm. What will be the approximate area of the circumcircle of this triangle? (Use $\pi = \frac{22}{7}$)

- (a) $154\sqrt{3} \text{ cm}^2$ (b) $462\sqrt{3} \text{ cm}^2$
(c) 462 cm^2 (d) 484 cm^2

40. Govinda usually leaves his house at 8:00 am every day and travels at a certain speed to reach office on time. One day he travels at $\frac{4}{5}$ th of his usual (daily) speed and reaches late by 22:50 minutes. How much time does Govinda usually take to reach office?

- (a) 1 hour 15 minutes
(b) 1 hour 20 minutes
(c) 1 hour 25 minutes
(d) 1 hour 30 minutes

41. Find the most appropriate solution of the following equation.

$$105 \div 15 \times (38 - 8 \div 5) \div 3 = ?$$

- (a) 7 (b) $3\frac{1}{2}$
(c) $84\frac{14}{15}$ (d) $10\frac{1}{2}$

42. If 84 is divided in the ratio of 5:9, then which of the two parts will be larger?

- (a) 54 (b) 63
(c) 57 (d) 48

43. Even after getting a discount of 15% on the marked price of a set of pens, the buyer had to pay ₹ 1751. What was the marked price of the set of pens?

- (a) ₹2025 (b) ₹2000
(c) ₹2060 (d) ₹1989

44. What will be the amount of interest obtained on an investment of ₹300 for 2 years at 10% compound interest per annum?

- (a) ₹60.50 (b) ₹60
(c) ₹61.50 (d) ₹63

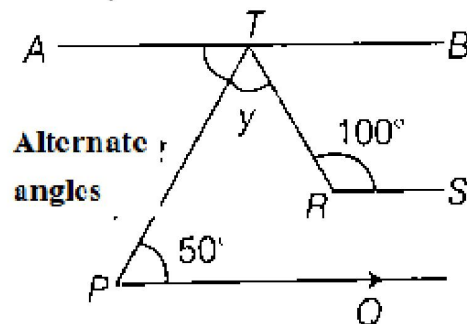
45. The average marks obtained by 5 students is 55. The average marks of the top three students among the above 5 students is 65. What is the average marks of the other two students?

- (a) 50 (b) 45
(c) 40 (d) 35

46. The difference of the squares of two numbers is 25. If their sum is also 25, then find the difference of the squares of their reciprocals

- (a) $\frac{25}{24336}$ (b) $\frac{29}{34326}$
(c) $\frac{35}{43447}$ (d) None of these

47. In the attached figure, if $PQ \parallel RS$, then find the value of y



(a) 50°

(b) 40°

(c) 60°

(d) 80°

48. If $\tan \theta = \frac{3}{4}$, then what will be the value of

$$\frac{1 - \cos \theta}{1 + \cos \theta}?$$

(a) $\frac{4}{9}$

(b) $\frac{5}{9}$

(c) $\frac{1}{4}$

(d) $\frac{1}{9}$

49. There are 40 students in a class, out of which 30 are boys and 10 are girls. The average weight of 10 girls is 40 kg and the average weight of 30 boys is 50 kg. Find the average weight of the whole class

(a) 47.5 kg

(b) 45.5 kg

(c) 43.5 kg

(d) None of the above

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

(a) 150°

(b) 160°

(c) 135°

(d) 140°

51. Pointing to a boy, Reena says, "He is the only son of the only child of my grandfather." How is Reena related to the boy?

(a) Mother

(b) Sister

(c) Maternal aunt

(d) Cannot be determined

52. A and B are children of D. Who is the father of A? To answer this question, which of the statements

(i) and (ii) is/are necessary?

(i) C is the brother of A and son of E.

(ii) F is the mother of B.

(a) Only (i)

(b) Only (ii)

(c) Either (i) or (ii)

(d) (i) and (ii)

53. If the number of girls in a class is 5 times the number of boys, then which of the following numbers will not be the total number of children in the class?

(a) 24

(b) 30

(c) 35

(d) 42

54. Arrange the words given below in a meaningful sequence.

(i) probation

(ii) Interview

(iii) selection

(iv) appointment

(v) Advertisement

(vi) Application

(a) (v), (vi), (iii), (ii), (iv), (i)

(b) (v), (vi), (iv), (ii), (iii), (i)

(c) (v), (vi), (ii), (iii), (iv), (i)

(d) (vi), (v), (iv), (ii), (iii), (i)

55. Arrange the words given below in a meaningful sequence.

(i) house

(ii) street

(iii) room

(iv) city

(v) district

(a) (iii), (ii), (i), (iv), (v)

(b) (iii), (i), (iv), (ii), (v)

(c) (iii), (i), (ii), (iv), (v)

(d) (iii), (i), (ii), (v), (iv)

Directions (Q. Nos. 56-58) Complete the series given below.

56. 6, 13, 25, 51, 101, ?

(a) 201

(b) 202

(c) 203

(d) 205

57. 3, 15, ?, 63, 99, 143

(a) 27

(b) 35

(c) 45

(d) 56

58. 1, 2, 3, 6, 9, 18, ?, 54

(a) 18

(b) 27

(c) 36

(d) 81

59. Introducing a lady, Shank said, "She is the mother of the only daughter of my son." How is that lady related to Shashank?

(a) Daughter

(b) Sister-in-law

(c) Wife

(d) Daughter-in-law

Directions (Q. No. 60 and 61) Choose the related letter/word from the given options.

60. SHOE : NCJZ :: REWA : ?

(a) WJBF

(b) CITY

(c) MZRV

(d) CAAR

61. Jewellery : Gold :: Furniture : ?

- (a) Table (b) Tree
(c) Wood (d) Paint

62. Dikesh goes 20 m north. After that he turns right and goes 30 m. Now he again turns right and goes 35 m. Then he again turns left and goes 15 m. After that he again turns left and goes 15 m and finally again turns left and covers 15 m. Tell how far he is from his starting point. In which direction and at what distance is the child from the child?

- (a) 30 m, East (b) 45 m, West
(c) 15 m, East (d) 45 m, East

63. How many such letter pairs are there in the word CHRONICLE, each of which has as many letters between them as they have in the English alphabet?

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

64. Pointing to a man, a woman said, "I am the only daughter of his mother's mother." How is the man related to the woman?

- (a) Son (b) Husband
(c) Brother (d) Uncle

65. A statement is given, followed by two assumptions I and II. You have to consider whether the statement is true, even if it seems to be at variance from commonly known facts. You have to decide which of the assumptions given below can definitely be drawn from the given statement. Specify your answer.

Statement Theoretical education does not lead to economic progress and it causes continuous loss of self-confidence and wealth in the country.

Assumptions

- I. There is a deep relationship between the development of self-confidence and economic development.
II. Theoretical education has an invaluable contribution in the development of self-confidence.
(a) Both I and II are implicit

(b) Both I and II are not implicit

- (c) Only I is implicit
(d) Only II is implicit

Instructions (Q. Nos. 66 and 67) Read the following information carefully and answer the questions given below.

P, Q, R, S, T, V and W are travelling in three buses A, B and C in such a way that there are at least two people in any of these buses. Each of them likes different food; Punjabi, Rajasthani, Bengali, Saharanshi, Gujarati, Kashmiri and Odipi, but not necessarily in the same order.

Q is travelling with T in bus B. T likes Odipi food. Those travelling in bus A do not like Punjabi or Maharashtrian food. The one who likes Rajasthani food is travelling with W in bus C. The one whose favourite food is Gujarati is not travelling in the same bus with T or W. P is not travelling in bus B. P likes Kashmiri food. S and V are travelling in the same bus. V does not like Bengali food. The one who likes Maharashtrian food is not travelling in bus B.

66. Which of the following combination is correct?

- (a) A-V-Gujarati (b) B-T-Udupi
(c) C-W-Punjabi (d) B-Q-Gujarati

67. Who likes Rajasthani food?

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

68. If CHROMATIC is written as XSILNZGRX in a code language, how will GENERATION be written in the same code language?

- (a) TYMVJZGRNL (b) TVNYIGZRLM
(c) TVMYIZGRLM (d) TVMVIZGRLM

69. Which letter will be exactly in the middle of the 10th letter from the right and the 18th letter from the left in the English alphabet?

- (a) K (b) R
(c) Q (d) No letter

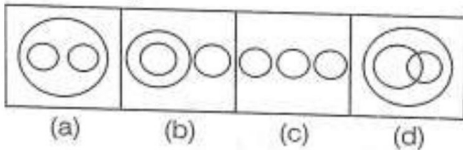
70. Kavita is older than Meenu. Rita is elder than Meenu but younger than Kavita. Lata is younger than both Meenu and Seema but Seema is younger than Meenu. Who is the youngest?

- (a) Meenu (b) Rita
(c) Lata (d) Kavita

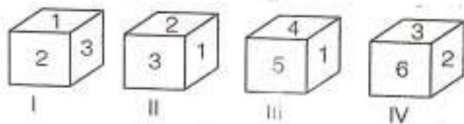
71. In a code language '247' means 'spread red carpet', '256' means 'dust one carpet' and '254' means 'one red carpet'. Then which number is used for 'dust' in the same code language?

- (a) 6 (b) 2
(c) 4 (d) 3

72. Choose the figure which best represents the relationship between the following three things. Ligium seed, pea, kidney bean



73. Four positions of a dice are given below. Which number will be on the face opposite to 6?



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

74. A sequence is given below in which one term is missing. Choose the correct option from the given options which will complete the sequence.

AMN, BOP, CQR, ?

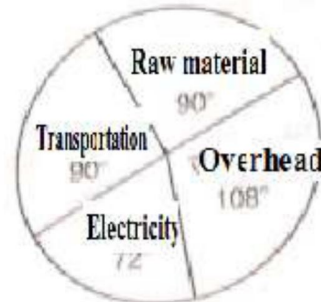
- (a) EOP (b) FRS
(c) DST (d) BAS

75. If in a code language WEAK is written as 5%9\$ and WHEN is written as 5*%7, then how will HANK be written in the same language?

- (a) *9\$7 (b) 9*%7
(c) \$97* (d) *97\$

Instructions (Q. No. 76 and 77) Read the pie-chart given below carefully and answer the questions based on it.

Total expenditure of a company on various items in a particular month = ₹ 60000



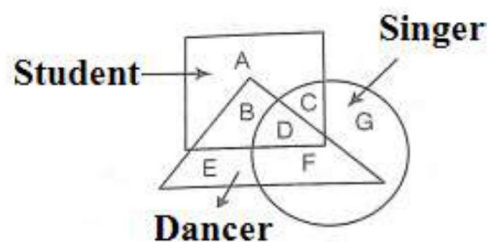
76. Expenditure on electricity is what percent of the total expenditure?

- (a) 25% (b) 23%
(c) 20% (d) 30%

77. What is the amount of overhead expenditure?

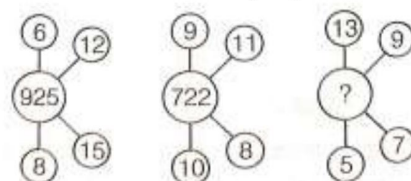
- (a) ₹ 15000 (b) ₹ 18000
(c) ₹ 10000 (d) ₹ 12000

78. In the figure given below, which letter represents those students who are both singers and dancers?



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

79. Which number will come in place of question mark (?) in the following figure?



- (a) 490 (b) 578
(c) 580 (d) 588

80. P is the brother of Q. R is the mother of Q. S is the father of R. T is the mother of S. Then tell how P is related to T?

- (a) Great grandson
- (b) Granddaughter
- (c) Grandmother
- (d) Grandson

81. What is called 'real estate' in the property market?

- (a) Land and residential area
- (b) Money
- (c) Motor vehicle
- (d) Movable property

82. Who has the right to issue currency notes in India on behalf of the Central Government?

- (a) Ministry of Finance
- (b) Reserve Bank of India
- (c) Currency Printing Press
- (d) President of India

83. 'Birju Maharaj' was associated with which classical dance?

- (a) Kathakali
- (b) Bharatanatyam
- (c) Kuchipudi
- (d) Kathak

84. Which world institution is considered as the soft loan window of the World Bank?

- (a) IFC
- (b) IMF
- (c) Asian Bank
- (d) IDA

85. From where does the Indian Standard Time Line pass?

- (a) Lucknow
- (b) Gwalior
- (c) Patna
- (d) Naini Prayagraj

86. According to the Indian Constitution, the right to property is

- (a) Fundamental Right
- (b) Moral Right
- (c) Legal Right
- (d) Natural Right

87. Who among the following is the founder of 'Art of Living'?

- (a) Sri Narayan Guru
- (b) Sri Ravi Shankar

(c) Baba Ramdev

(d) Acharya Rajneesh

88. The term 'Bull and Bear' is used in

- (a) Boxing
- (b) Planning Commission
- (c) Stock Market
- (d) Income Tax Department

89. Simlipal Wildlife Sanctuary is located in which state?

- (a) Gujarat
- (b) Odisha
- (c) Madhya Pradesh
- (d) Assam

90. Who among the following founded 'Bharat Sevak Samaj'?

- (a) Bal Gangadhar Tilak
- (b) Lala Lajpat Rai
- (c) Chittaranjan Das
- (d) Gopal Krishna Gokhale

91. Where are the savanna grasslands located?

- (a) Africa
- (b) Europe
- (c) North America
- (d) South America

92. Which of the following is not the function of the Central Bank in our economy? (a) Control over government expenditure

- (b) Dealing in foreign exchange
- (c) Banks playing the role of banks
- (d) Controlling monetary policy

93. When is 'World Yoga Day' celebrated?

- (a) 18 March
- (b) 18 April
- (c) 21 June
- (d) 10 July

94. 'Sardar Sarovar Dam' is built on which river?

- (a) Sutlej
- (b) Narmada
- (c) Yamuna
- (d) Bhagirathi

95. Taxation is a part of?

- (a) Sotrik policy
- (b) Fiscal policy
- (c) Price policy
- (d) Labor policy

96. Where is ozone gas found in the atmosphere?

- (a) Troposphere
- (b) Ionosphere
- (c) Stratosphere
- (d) Exosphere

97. Who was the mother of Mahavir Swami?

- (a) Yashoda (b) Trishala
(c) Mahamaya (d) None of these
98. What percentage of the total area of the world is owned by India?
- (a) 10.4 (b) 19.1
(c) 2.42 (d) 17.5
99. Lakshadweep Islands are located in
- (a) Arabian Sea (b) Indian Ocean
(c) Bay of Bengal (d) None of these
100. What is the maximum duration of an ordinance issued by the President?
- (a) Six weeks (b) Three months
(c) Six months (d) Ten months