RRB GROUP D

TEST SERIES



INSTRUCTION FOR CANDIDATE

TEST SERIES NO.

SG Set - 21

QUESTION- 100

MARKS- 100

NEGATIVE MARK- 0.33

DURATION- 90 MIN.

- 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.
- 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.
- 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.
- 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.
- 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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(c) with 10 m/s² acceleration

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1. The pressure for 1 newton force acting normally		(d) with 1 m/s spee	(d) with 1 m/s speed		
on an area of 12 m will be		10.Anti-sterility vitamin is			
(a) 1 joule	(b) 1 pascal	(a) Vitamin-K	(b) Vitamin-E		
(c) 1 watt	(d) 1 faraday	(c) Vitamin-A	(d) Vitamin-B		
2. Which of the following	is an alloy?	11.In which part of	11.In which part of coconut fibres are found?		
(a) Copper	(b) Iron	(a) Exocarp wall	(b) Seed shell		
(c) Stainless steel	(d) Gold	(c) Endocarp wall	(d) Mesocarp wall		
3. Octane number is a measure of the quality of		12. How many ergs	12. How many ergs are there in 1 joule?		
which of the following?		(a) 10^7	(b) 10^6		
(a) Petrol	(b) Diesel	(c) 10^4	(d) 10^2		
(c) Kerosene oil	(d) Edible oils	13. Unicellular orga	nisms are classified as		
4. Cholera disease is caus	ed by	(a) Molluscs	(b) Arthropods		
(a) Bacteria	(b) Insects	(c) Protozoans	(d) Mammals		
(c) Viruses	(d) Infection	14. Which one of th	14. Which one of the following is a strong acid?		
5. Flowering plants bearing	ng flowers, fruits and seeds	(a) CH ₃ COOH	(b) H ₂ CO ₃		
are called		(c) HNO ₃	(d) HCN		
(a) Cryptogams (b)	Ferns	15. If a person has a	A and B antigens in his red		
(c) Gymnosperms (d) Angiosperms		blood cells, which a	blood cells, which antibody will be present in his		
6. Identify the alkane from the following		serum?			
(a) C ₃ H ₄	(b) C ₂ H ₆ ardhaguru	(a) Antibody-A	(b) Antibody-B		
(c) C ₃ H ₆	(d) C_2H_2	(c) No antibody	(d) 'a' and 'b'		
7. Carbon has a large number of compounds		16. At the same ten	nperature, the speed of sound		
because		will be maximum in	will be maximum in which of the following?		
(a) Its compounds are inflammable and have low		(a) H ₂ gas	(b) 0 ₂ gas		
melting and boiling points		(c) N ₂ gas	(d) Equal in all gases		
(b) It is a non-metal and its covalency is four		17. Which of the fo	17. Which of the following has maximum		
(c) It has a high tendency to catenate		molecules?			
(d) It forms covalent bond	ds is	(a) 1 gram H ₂	(b) 1 gram N ₂		
8.Magnetic quantum number gives information		(c) 1 gram CH ₄	(d) 1 gram CO ₂		
about		18. Which isotope o	18. Which isotope of hydrogen is heavy water?		
(a) Spin of an electron		(a) ${}_1^1$ H	(b) ² ₁ H		
(b) Orientation of orbitals		(c) ${}_{1}^{3}H$	(d) ${}_{1}^{1}H$		
(c) Total energy of an orbital		19. The relation between the focal length and			
(d) Shape of orbitals		radius of curvature	radius of curvature of a spherical mirror is		
9.When 1 newton force acts on 1 kg mass and the		(a) $f = \frac{R}{2}$	(b) $R = \frac{t}{2}$		
body is able to move freely, then the body moves		(c) $f = 2R$	(d) f = R		
(a) with 1 m/s ² acceleration			emperature of a system is 50°0		
(b) with 1 km/s ¹ speed		_	The change in temperature on Kelvin scale is		

(a) 50 K

(b) 323 K



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(c) 122 K	(d) 70 K	29. In what ratio s	29. In what ratio should rice costing ₹7.50 per kg		
21. Which one of the following is not alkaline?		and rice costing ₹	and rice costing ₹10 per kg be mixed so that the		
(a) Sodium	(b) Potassium	mixture costs ₹8.2	mixture costs ₹8.25 per kg?		
(c) Lithium	(d) Sulphur	(a) 4:3	(b) 7:3		
22. What are Infra-red rays	s?	(c) 8 : 3	(d) 2:5		
(a) Longitudinal waves		30. The ratio of th	e present ages of two brothers is		
(b) Transverse waves		1 : 2. Five years ag	o the ratio was 1 : 3. What will be		
(c) Mechanical waves		the ratio of their ages after five years?			
(d) Electromagnetic waves		(a) 1 : 4	(b) 2:3		
23. If the power of a lens is +2 diopters, what will		(c) 3 : 5	(d) 5:6		
be its focal length?		31. The product o	31. The product of the LCM and HCF of two		
(a) 50 cm	(b) 10 cm	numbers is 24. If t	numbers is 24. If the difference of the numbers is 2,		
(c) 1 m	(d) 100 cm	then the larger nu	mber is		
24. Three wires whose resi	stances are 2Ω , 3Ω and	(a) 3	(b) 4		
4Ω respectively, are connected in parallel. The		(c) 6	(d) 8		
equivalent resistance of the circuit formed is		32. The average m	32. The average marks obtained by the students of		
(a) $\frac{12}{13}\Omega$	(b) $\frac{1}{6}\Omega$ (d) $\frac{1}{11}\Omega$	a class is 68. The a	verage marks obtained by the		
(c) $\frac{11}{6}\Omega$	$(d) \frac{1}{\Omega} \Omega$	girls in that class i	s 80, while the average marks		
O .	n compound is responsible for the		obtained by the boys is 60. What is the percentage		
temporary hardness of wa		of boys in that cla	ss? L1M1ted		
(a) $Mg(HCO_3)_2$	(b) CaCl ₂	(a) 70	(b) 60		
(c) $MgSO_4$	(d) $CaCO_3$	(c) 65	(d) 40		
26. Find the least number		33. Of the three n	33. Of the three numbers, the first number is twice		
16, 18 and 20 leaves a rem	•	the second and th	e second number is thrice the		
and is exactly divisible by		third number. If th	third number. If their average is 100, then the		
(a) 364 (b) 2254		largest of the thre	largest of the three numbers is		
(c) 2884	(d) 3234	(a) 120	(b) 150		
27. A bicycle marked at ₹2		(c) 180	(d) 300		
discounts of 20% and 10%		34. If 20% of (P +	Q) = 50% of $(P - Q)$, then find the		
of 5% is given for cash pay		value of P : Q			
the bicycle on cash payme	5 1	(a) 8 : 7	(b) 7:3		
(a) ₹1368	(b) ₹1468	(c) 5:7	(d) 7:5		
(a) ₹1568	(d) ₹1668	35. In an examinat	tion a student got 30% marks and		
28. 30 oranges and 75 app		failed by 12 marks	failed by 12 marks. In the same examination another student got 40% marks and got 18 marks		
₹510. If the price of apples	•	another student g			
average price of oranges v		more than the mir	nimum passing marks. What		
(a) ₹12	vas (b) ₹14	should be the mai	should be the marks to pass?		
(a) ₹12 (c) ₹10	(d) ₹15	(a) 102	(b) 120		
(c) \ 10		(c) 150	(d) 132		



(c) 108 sq cm

(d) 206 sq cm

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successive discounts of 20% and 15% were given

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	HELFLINE 30711 344	45, 50711 04440, 50711	1441		
36. A boy goes from his home to school at a speed		43. What will be the number of diagonals in a			
of 3 km/hr and while returning comes at a speed of		regular polygon of 8	regular polygon of 8 sides?		
2 km/hr. If he takes 5 hours to come and go, then		(a) 18	(b) 20		
the distance between his home and school is		(c) 24	(d) 16		
(a) 6 km	(b) 5.5 km	44.If $\sqrt{7 \text{ mA}} = 1$, then	n what is the value of		
(c) 6.5 km	(d) 5 km	$\frac{cosec^2A - sec^2A}{cosec^{2A} + sec^2A}$?			
37. There are equal number of soldiers in rows of		$\cos e c^{2A} + \sec^{2}A$ (a) $\frac{3}{4}$	(b) $-\frac{4}{}$		
12, 15 and 18. If they	are arranged in a perfect		(b) $-\frac{4}{3}$ (d) $\frac{3}{\sqrt{7}}$		
square, then the mini	mum number of soldiers is	(c) $\frac{1}{4}$	(d) $\frac{1}{\sqrt{7}}$		
(a) 32400	(b) 450	45.If the median of s	ome data is 9.89 and the mean		
(c) 900	(d) 189	is 14.10, then find the	e mode		
38. P can do a work i	n 60 days. He works for 15	(a) 1.36	(b) 1.89		
days and the remaini	ng work is completed by Q	(c) 1.63	(d) 1.47		
alone in 30 days. In how much time can they both			46.Will the two needles of the clock meet between		
together complete the work?			1 and 2 o'clock?		
(a) 24 days	(b) 30 days	(a) 1 past 30			
(c) 25 days	(d) 32 days	(b) 1 past $10\frac{8}{10}$ minu	(b) 1 past $10\frac{8}{10}$ minutes		
39. A sum of money doubles in 10 years. In how		(c) 1 past $5\frac{5}{11}$ minute	(c) 1 past $5\frac{5}{11}$ minutes		
many years will it triple at the same rate of simple			(d) None of the above?		
interest?	Spardnaguru		B can fill a tank in 24 minutes		
(a) 12	(b) 18		ectively. Both are opened		
(c) 15	(d) 20		the first one is turned off after 8		
_	n upstream in 8 hours and 36		minutes. The time taken by B to fill the tank is		
	hours. The speed of the boat	(a) 10 minutes	(b) 8 minutes		
in still water is		(c) 12 minutes	(d) 16 minutes		
(a) 5 km/h	(b) 5.5 km/h	48. 60 persons take 3	36 days to build a wall. When		
(c) 6 km/h	(d) 6.5 km/h	one-sixth of the worl	k is completed, one-fourth of		
41. M and N can complete a work in 15 days and 10		the workers leave the	the workers leave the work. How many days in all		
	h of them start working	will they take to com	will they take to complete the work?		
together, but after 2 days N has to leave and M		(a) 46	(b) 45		
alone completes the remaining work. In how many		(c) 40	(d) 48		
days was the whole w		49. Prabhat covers a	distance of 240 km at a certain		
(a) 10 days	(b) 12 days	speed. If he cycles 3 km faster every hour, he takes			
(c) 8 days	(d) 15 days	4 hours less to reach the destination. At what speed			
	a rhombus is 60 cm and one of	did Prabhat actually	cycle?		
_	. What will be the area of the	(a) 9	(b) 10		
rhombus? (a) 432 sq cm (b)	(h) 216 ac	(c) 12	(d) 15		
	(b) 216 sq cm	50. The marked price	e of a toy was ₹ 2100. Two		



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on it during a sale. What was the selling price of the toy?

(a) ₹1460

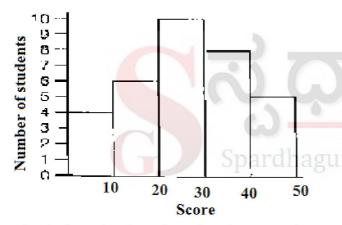
(b) ₹1428

(c) ₹1365

- (d) ₹1397
- 51. A group of 1200 persons including captains and soldiers are travelling by train. If there is one captain for every 15 soldiers, then what is the number of captains in the group?
- (a) 80

(c)75

- (d) 70
- 52. Study the given bar chart and answer the question based on it.



What is the ratio of number of students securing less than 20 marks and those securing more than 30 marks?

(a) 15:14

(b) 6:15

(c) 13:14

- (d) 10:13
- 53. How many meaningful English words can be formed from the letters ACRS, while in each word, each letter is used only once? (a) None
 - (b) One
- (c) Two

- (d) Three
- 54. In a certain code '329' means 'GOD IS LOVE' '927' means 'LOVE IS BEAUTIFUL' then what will be the code for 'GOD'?
- (a) 3

(b) 7

(c) 9

- (d) 2
- 55. If ' + ' means ' ', ' ' means '×, '× ' means ' ∵ and ' \div ' means ' + ', then $18 \times 3 \div 15 + 6 - 1 = ?$

(a) 8

(b) 15

(c) 12

(d) 20

56. Sanjeev goes 10 km north, from there he goes 6 km south, then he goes 3 km east. Tell in which direction and at what distance Sanjeev is from his starting point?

- (a) 9 km, West
- (b) 7 km, East
- (c) 5 km, West
- (d) 5 km, North-East
- 57. Which of the following options will give a meaningful order of the words given below?
- 1. Type

2. Print

3. Open

4. Save

- 5. Close
- (a) 3, 5, 4, 2, 1
- (b) 2, 3, 4, 1, 5
- (c) 3, 1, 4, 2, 5
- (d) 3, 4, 1, 2, 5

Directions (Q. No. 58-60) Choose the odd word/letter/number from the following options.

- 58.
- (a) Rectangle
- (b) Circle
- (c) Triangle (d) Cone

- 59.
- (a) POSR

(b) YXWV

(c) VUXW

(d) FUEV

- 60.
- (a) 8341

(b) 2185

(c) 3249

(d) 2711

61. If the third Tuesday of a month is the 20th day, then what is the 11th day of the month?

(a) Friday

(b) Thursday

(c) Sunday

- (d) Tuesday
- 62. If 'wind' is called 'stone', 'stone' is called 'water', 'water' is called 'bridge', 'bridge' is called 'rain', 'rain' is called 'hot' and 'hot' is called 'cold', then with what will we wash our hands?
- (a) bridge

(b) cold

(c) stone

- (d) water
- 63. Which number will come in place of question mark (?) in the following number series?
- 4, 12, 8, 9, 12, ?, 16, 3



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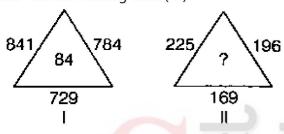
(a) 10 (b) 14 (c) 6 (d) 1

64. Which group of the given letters when sequentially placed in the blank spaces will complete the given letter series?

b_abbc_bbca_bcabb_ab

(a) cacb (b) cabc (c) acba (d) acaa

65. Find the missing term (?)



(a) 85 (b) 42 (c) 32 (d) 62

66. Which term in the given question is wrong or different?

CPZ, EQY, GRX, ISV, KTV

(a) CPZ (b) GRX (c) EQY (d) ISV

67. Which of the following conclusions can be drawn from the given statements?

Statement

A. Kabirdas wrote many poems.

B. Every poet has aesthetic knowledge.

C. Aesthetics is a part of value-based studies. Conclusion

I. Kabirdas did various value-based studies.

II. He adopted the basis of logic and ethics.

(a) Only conclusion I follows

(b) Only conclusion II follows

(c) Both conclusions I and II follow

(d) None of the above

Directions (Q. No. 68 and 69) Below are given two statements followed by two conclusions I and II. You should examine the statements assuming them to be true even if there is a difference in commonly

known facts. You decide which of the given conclusions, if any, follow from the given statements.

68. Statement All clouds are fog. All fogs are white. Conclusions

I. Some white are clouds.

II. Some fogs are clouds.

(a) Both the conclusions are correct

(b) Neither conclusion I nor conclusion II is correct

(c) Only conclusion I is correct

(d) Only conclusion I is correct

69. Statement Teachers are role models for students. It is the responsibility of teachers to develop scientific attitude in their students.

Conclusion

I. Students do not have scientific attitude.

II. Teachers can influence scientific attitude of students.

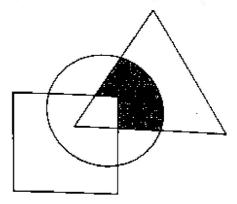
(a) Both conclusions I and II follow

(b) Neither conclusion I nor II follows

(c) Only conclusion I follows

(d) Only conclusion II follows

70. What does the shaded portion in the following diagram represent, if triangle represents poor, circle represents family and square represents rich?



(a) Urban family

(b) Poor family

(c) Neither urban nor poor family

(d) Urban and poor family



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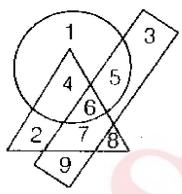
71. Which of the following interchange of signs or numbers will make the given equation correct? $(5+2)\times2-10=16$

- (a) 5 and 10
- (b) + and \times

(c) 5 and 2

(d) + and -

72. Which number is common to all the three geometrical figures?

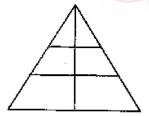


(a) 7

(b) 4

(c) 6 (d) 5

73. How many triangles are there in the given figure?



(a) 27

(b) 9

(c) 11

(d) 17

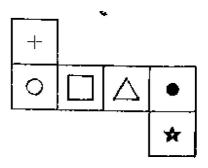
74.P is the father of J. S is the mother of N who is the brother of J. B is the son of S. C is the daughter of B. How is J related to C?

(a) Brother

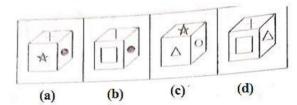
- (b) Sister
- (c) Data are insufficient
- (d) Cousin

75. Select the cube that will be formed by folding the given question figure.

Question Figure



Answer Figures



76. Children in a row are facing north. Among them Sameer is 17th from the left and second to the right of Jyoti who is 15th from the right in that row. How many children are there in the row?

(a) 31

(b) 24

(c).30

(d) 29

77. If 24th of a month is Monday, what day will be on 12th of the same month?

- (a) Saturday
- (b) Sunday
- (c) Wednesday
- (d) Tuesday

78. How many such pairs of letters are there in the word GOVERNMENT, each of which has as many letters between them in the word as there are between them in the English alphabet? (in both forward and backward directions)

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

79. Choose the answer figure which is the exact water image of the question figure?



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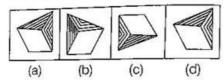
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Question figures



Answer figures



80. Four Air Force planes A, B, C, D took off for a demonstration flight towards the east. After flying 50 km, planes A and D flew to the right; while planes B and C flew to the left. After flying 50 km, planes B and C again flew to their left, while planes A and D also flew to their left. Now in which direction are the planes A,B,C,D flying respectively?

- (a) East, West, West, East
- (b) West, East, West, East
- (c) North, South, East, West
- (d) South, North, West, East
- 81.In which state is the aluminium company 'NALCO' located?
- (a) Uttar Pradesh
- (b) Karnataka

(c) Odisha

- (d) Jharkhand
- 82. Who founded Nalanda University?
- (a) Skandagupta
- (b) Ashoka
- (c) Kumaragupta
- (d) Chandragupta II
- 83. The famous Nehru Trophy is related to which sport?
- (a) Cricket

(b) Hockey

(c) Football

- (d) Polo
- 84. The Lepcha tribals are residents of which state?
- (a) Sikkim

- (b) Manipur
- (c) Nagaland
- (d) Kerala
- 85. Where is the Air Force Administrative College located in India?
- (a) Hyderabad
- (b) Salem
- (c) Coimbatore
- (d) Kochi

- 86. Shanti Swarup Bhatnagar Award is given for outstanding work in which field?
- (a) Social work
- (b) Science and technology
- (c) Environmental protection
- (d) Community leadership
- 87. Dhanraj Pillai is associated with which sport?
- (a) Hockey

(b) Golf

(c) Billiards

- (d) Chess
- 88. In which Olympics did the Indian team reach the semi-finals of football?
- (a) Year 1950
- (b) Year 1956
- (c) Year 1974
- (d) Year 1980
- 89. Which type of soil is found in the plains of North India?
- (a) Black soil
- (b) Red soil
- (c) Alluvial soil
- (d) Laterite soil
- 90. In which continent is Victoria Lake located?
- (a) North America
- (b) South America
- Spandhagunu (c) Africa Wate (d) Asia

 - 91. Who was the editor of 'Bombay Chronicle' newspaper?
 - (a) Nana Shankar Seth
 - (b) Dadabhai Naoroji
 - (c) Pherozeshah Mehta
 - (d) None of these
 - 92. Where is the National Institute of Hydrology located?
 - (a) Chennai
- (b) Roorkee
- (c) Hyderabad
- (d) Varanasi
- 93. Who propounded the principles of 'Ashtanga
- Marg'?
- (a) Mahatma Buddha
- (b) Mahavir Swami
- (c) Dayanand Saraswati
- (d) Swami Vivekananda
- 94. Who was the first Indian to receive the
- 'Magsaysay Award'?
- (a) Vinoba Bhave
- (b) J.P. Narayan



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- (c) Kiran Bedi (d) Amitabh Chaudhary
- 95. Gir Forest Sanctuary is in which state?
- (a) Karnataka
- (b) Kerala

(c) Gujarat

- (d) Rajasthan
- 96. Surat is situated on the bank of which river?
- (a) Tapti

(b) Narmada

(c) Mahi

- (d) Luni
- 97. Where are Bushmen tribals found? (a) Atacama Desert
 - (b) Gobi Desert
- (c) Patagonian Desert
- (d) Kalahari Desert
- 98. Which of the following appointments is not

made by the President of India?

- (a) Air Force Chief
- (b) Army Chief
- (c) Speaker of Lok Sabha
- (d) Chief Justice of India
- 99. In which country is Atacama Desert located?
- (a) USA

(b) Chile

(c) Africa

(d) Australia

100.Which of the following does not come under

the Council of Ministers?

- (a) Cabinet member
- (b) Minister of State
- (c) Minister without department
- (d) Vice President