RRB GROUP D

TEST SERIES



INSTRUCTION FOR CANDIDATE

TEST SERIES NO.

SG Set - 18

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.
- 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.
- 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.Which of the following is a heterogeneous mixture?		8.If resistances of 1.5 ohm, 0.05 ohm and 0.25 ohm are connected in series, then their equivalent	
(a) Stainless steel	(b) lodized salt	resistance will be	
(c) Air	(d) Bronze	(a) 1.80 ohm	(b) 180 ohm
2.Which of the following is no	ot a method of	(c) 13.5 ohm	(d) 1.35 ohm
concentration?		9.On heating copper shavings with concentrated sulphuric acid, gas is obtained.	
(a) Froth floatation method			
(b) Magnetic method		(a) SO ₃ (c) H ₂ S	(b) SO ₂ (d) H ₂
(c) Calcination (d) Gravitational separation method 3.The temperature at which ferromagnetism disappears and a substance becomes paramagnetic is called (a) Reversal temperature (b) Boyle temperature		10. Which acid is used to remove ink stain?	
		(a) Oxalic acid	(b) Acetic acid
		(c) Formic acid	(d) Elemental acid
		11.A charged particle q is moving with constant velocity v parallel to the lines of force in a uniform magnetic field B. The value of the force applied on the particle is	
(d) Kelvin temperature		(c) Zero	(d) Bv/q
4.The weight of a body at the centre of the earth is		12.At normal temperature and pressure, the speed of sound through air is 332 m/s. If the pressure is increased four times, the speed of sound will be	
(a) Zero			
(b) Slightly less than the weig	ht at the equator	(a) 166 m/s	(b) 332 m/s
(c) Slightly less than the weight at the poles		(c) 664 m/s	(d) 1328 m/s
(d) Infinite		13. A plant that forms spores, has vascular tissue	
5.Which of the following comes in the fish class?		but does not have flowers and seeds, will be	
(a) Shark	(b) Catfish	described in which g	
(c) Dogfish	(d) All of these	(a) Algae	(b) Gymnosperms
6.The component of blood which prevents its		(c) Bryophyta	(d) Pteridophyta
clotting in the entire blood vessels is (a) Thrombin (b) Heparin		14.The image formed by a concave lens will be (a) always larger than the object	
	(b) Heparin		Title object
(c) Hemoglobin (d) Antibody 7.The momentum of a particle of mass m is p. Its kinetic energy will be		(b) always virtual	
		(c) always real	
(a) mp (c) p^2/m	(b) p^2m (d) $p^2/2m$	(d) always inverted 15.Mica is used in co	oking utensils because it



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- (a) is a good conductor of heat but a bad conductor of electricity
- (b) is a bad conductor of both heat and electricity
- (c) is a bad conductor of heat but a good conductor of electricity
- (d) is a good conductor of both heat and electricity
- 16.The colour of the precipitate obtained from the reaction of HCl and AgNO₃ will be
- (a) green

(b) white

(c) black

- (d) blue
- 17.In the given circuit, the current i flowing through the cell is (internal resistance of the cell is zero)
- (a) 1 ampere
- (b) $\frac{3}{2}$ ampere
- (c) 2 ampere
- (d) 3 ampere

A body of mass 18.2 kg is moving in the east direction with an initial velocity of 10 ms⁻¹ on a smooth horizontal surface. A uniform force of 10 Newton acts on the body in the north direction. After 2 seconds the final velocity of the body will be

- (a) $10\sqrt{2}$ ms⁻¹ from east 45° north
- (b) $10\sqrt{2}$ ms⁻¹ from east 45° south
- (c) 20 ms⁻¹ towards east
- (d) 20 ms⁻¹ towards west
- 19. The heaviness of water is caused by which of the following?
- (a) Due to carbonates of Na⁺and K⁺
- (b) Due to chlorides and sulphates of Ca^{2+} and Mg^{2+}
- (c) Due to nitrites and nitrates of Al³⁺
- (d) Due to chlorides and sulphates of Na⁺ and K⁺
- 20. Which of the following will give blue-black colour when tested with iodine solution for testing food items?
- I. Boiled and mashed potatoes
- II. Boiled and chewed rice

- III. A piece of roti (bread)
- IV. Sugar solution
- V. Coconut oil
- (a) I, II and III
- (b) I, III and V

(c) I and III

- (d) I and IV
- 21. The number of moles in 128 grams of SO₂ will be
- (a) 1 mole

(b) 2 moles

(c) 3 moles

(d) 4 moles

- 22.Soap is
- (a) Salt of alkali metals of low grade fatty acids
- (b) Salt of alkaline metals of high grade fatty acids
- (c) Salt of alkali metals of high grade fatty acids
- (d) None of the above
- 23. Biological soil pollution is caused by
- (a) Water

(b) Air

(c) Animals

- (d) All of these
- 24.Calamine is the ore of which metal?
- (a) Magnesium
- (b) Copper

(c) Zinc

- (d) Sodium
- 25.Enzymes are chemically
- (a) Carbohydrates
- (b) Lipids

(c) Acids

- (d) Proteins
- 26.One tap can fill a tank in 25 minutes and another can empty it in 50 minutes. If both the taps are opened simultaneously, in how many minutes will the tank be filled?
- (a) 30 minutes
- (b) 20 minutes
- (c) 40 minutes
- (d) 50 minutes
- 27.A room is 6 m long, 5 m wide and 4 m high. If all the four walls of this room are covered with a 50 cm wide paper, then what should be the length (in m) of that paper?



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(a) 176	(b) 170	35.5 men and 8 boys complete a work in 5 days. The same work can be completed by 6 men and 3 boys in the same time. How many days will 2 men	
(c) 88	(d) 80		
28.What will be 5% of 5% of 80?		boys in the same time. How many days will 2 men and 5 boys take to complete the same work?	
(a) 0.25	(b) 0.20	(a) 12 days	(b) 5 days
(c) 2	(d) 0.50	(c) 11 days	(d) 15 days
29.5 years later a father's age will be three times his son's age, while 5 years ago the father's age was seven times his son's age. Find the father's present age (in years)		36. Rajeev buys goods worth ₹ 6650. He gets a discount of 6% on it. After getting the discount, he sells it at the rate of 10%. How much amount will he have to pay for the goods purchased?	
(a) 45	(b) 40	(a) ₹6876.10	(b) 6999.20
(c) 50	(d) 35	(c) ₹6654	(d) ₹7000
30.If Mahesh's monthly income is 180% more than Suresh's, then by what percent is Suresh's income less than Mahesh's?		37. A train covers a distance of 20 km in 24 minutes. If its speed is increased by 5 km/hr, then in how many minutes will the train cover the same	
(a) <mark>64.</mark> 29%	(b) 60%	distance?	
(c <mark>) 80%</mark>	(d) 70%	(a) $29 \frac{9}{11}$ minutes (c) $27 \frac{9}{11}$ minutes	(b) $21\frac{9}{11}$ minutes
31. <mark>If Independenc</mark> e Day was on Thursday on 15		(c) $27\frac{9}{11}$ minutes	(d) $26\frac{9}{11}$ minutes
August 19 <mark>99, then o</mark> n which in 1993?	day was it celebrated	38. If 63 chocolates are divided between A and B in the ratio of 4:5, then how many chocolates will B	
(<mark>a) Monda</mark> y	(b) Thursday	get?	(b) 35
(c) Sunday	(d) Saturday	(a) 28	(b) 35
32.What will be the mean of 16, 14, 18 and 20?		(c) 27	(d) 49
(a) 17	(b) 19	39. When a weight of 1.5 kg is hung at one end thread of length 15 cm, the length of the threa increases to 16 cm. If a weight of 6 kg is hung	
(c) 17.5	(d) 18		
33.In a two-digit number, the unit's digit is in place of 3 and the sum of the digits of the number is 1/7 of the number. What is that number?		that end, what will be the length of the thread?	
		(a) 19 cm	(b) 21 cm
(a) 83	(b) 36	(c) 18 cm	(d) 20 cm
(c) 63	(d) 53	40. Solve the following equation.	
34.A man sells an item at a profit of 20%. If he buys it for 20% less and sells it for ₹ 5 less, he gains 25%.		48÷[35-{30-(31-26÷2	2×4)}]=?
		(a) -2	(b) -3
Find the cost price of the iter		(c) -4	(d) -8
(a) ₹ ₹ 0	(b) ₹ 60		

(d) ₹ 40

(c) ₹ 25



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41. The simple interest on a principal sum at 8% per annum for a period of 2 years is ₹192. Find the		48. Find the arithmetic mean of the observations 3,6,8,10,12,14,18,24 and 31.	
principal sum.		(a) 16	(b) 17
(a) ₹1400	(b) ₹1600	(c) 15	(d) 14
(c) ₹1000 (d) ₹1200 42. Find the sum of first five prime numbers.		49. The sum of two numbers is 9 and the sum of their squares is 41. Find the numbers.	
(a) 27	(b) 29	(a) 5,4	(b) 6,3
(c) 28	(d) 26	(c) 7,2	(d) 1,8
43. If one-third of a journey is covered at a speed of 25 km/hr, the next one-third of the journey is covered at a speed of 40 km/hr and the remaining journey is covered at a speed of 50 km/hr, then find the average speed (in km/hr, rounded off to one decimal place) for the whole journey.		50. Two pipes A and B fill a tank in 24 minutes and 32 minutes. If both the pipes are opened simultaneously, after how much time should B be closed so that the tank is filled in 18 minutes?	
		(a) 8 minutes	(b) 6 minutes
(a) 35.3	(b) 30.3	(c) 10 minutes	(d) 4 minutes
(c) 33.3	(d) 25.3		, 2012 is Friday, then what day 7th December, 2014?
44. Sarthak can fill a sand pit in 14 days; while Vivan takes 35 days to fill it. Ali can completely empty a full sand pit in 12 days. If all three start working together in the empty pit, in how many days will the sand pit be filled again?		(a) Thursday	(b) Monday
		(c) Wednesday	(d) Sunday
		52. Raveena goes 5 km south from her house. From there she goes 7 km towards east, then 4 km	
(a) 60	(b) 61		7 km towards west and finally 6
(c) 62	(d) 56	km towards south. How far and in which direction Raveena from her house?	
45.If $15x = 0.02y$, then find the value of $\frac{1}{\left(\frac{y+x}{y-x}\right)}$.		(a) 14 km, south	(b) 9 km, north
(a) $\frac{38}{37}$	(b) $\frac{37}{28}$	(c) 5 km, south	(d) 14 km, north
(c) $\frac{370}{38}$	(b) $\frac{37}{38}$ (d) $\frac{37}{380}$	5	iven below, out of which three fourth one is different. Find the
46. The value of each interior angle of a regular		odd one out.	
pentagon is (a) 72°	(b) 90°	(a) Sodium	(b) Radium
(a) 72 (c) 108°	(d) 120°	(c) Thorium	(d) Uranium
47. Find the value of sec 33° cosec 57° – cot 57° tan 33° +cot 47° cot 43°.		54. If the hour hand of a wrist watch at 6:00 am points towards North-West direction, then at 9:00 pm, the hour hand will point towards which	
(a) -1	(b) 2	direction?	
(c) 0	(d) 1	(a) South-West	(b) South



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(c) North-East	(d) North-West
and also the position in the following equa	f '+' and '-' are interchanged as of ' and '+' are interchanged ation, then what will come in ark (?) in the equation?
17-3÷2+ 12 x 4 = ?	
(a) 24	(b) 21
(c) 22	(d) 20
	n words in a meaningful logical t the appropriate sequence en below.
1. Lungs	2. Nostrils
3. Windpipe	4. Blood
(a) 1, 2, 3, 4	(b) 2, 3, 1, 4
(c) 1, 3, 4, 2	(d) 4, 3, 2, 1
RRAJX and HELLO is	language POWER is written as written as JHPQU. How will the same code language?
(a) PHJZX	(b) PHZJZ
(c) PHZJX	(d) PHZXJ
58. Which of the follo	owing is always found in
(a) Experience	(b) Courage
(c) Power	(d) Knowledge
Reema. Reema's hus	are twins. Babu's sister is band is Rajan. Raghu's mother band is Rajesh. How is Rajesh
(a) Uncle	(b) Son-in-law
(c) Father-in-law	(d) Cousin
younger of the two k	whit, "The boy in blue shirt is the prothers of the daughter of my the boy in blue shirt related to

(b) Uncle

(a) Father

(c) Brother	(d) Nephew	
61. Choose the statement.	conclusion based on the following	
Statement F>N	$I > Z \le S = B < W$	
(a) W > Z	(b) N ≥ W	
(c) N > B	(d) F > S	
62. Choose the number that will come in place of question mark (?) in the following series.		
15, 26, 48, 81,	125, ?	
(a) 182	(b) 169	
(c) 180	(d) 170	
	correct option that will continue the n the series and replace the question	
198, 194, 185,	169, ?	
(a) 92	(b) 112	
(c) 136	(d) 144	
arranged in aso the position of	gits of the number 8759236 are cending order from left to right, then how many digits will remain h respect to the original number?	
(a) One	(b) Four	
(c) Two	(d) Three	
conclusions in	ven a statement followed by four the options. State which of the given true based on the given statements? F <u>A < Z>J</u>	
(a) A <z<x< td=""><td>(b) F≤ U≥A</td></z<x<>	(b) F≤ U≥A	
(c) U>Z>J	(d) U≥A≥F	
	wing number series one number is ewrong number.	

3, 4, 10, 32, 136, 685, 4116

(a) 10

(c) 136

(b) 32

(d) 4116



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67. Choose the correct option that will continue the given pattern in the series and replace the question marks (?, ?).

T, R, P, N, L, ?, ?

(a) J, H

(b) J, G

(c) K, H

(d) K, I

68. How many such pairs of letters are there in the word MASTER (in forward direction) which have as many letters between them in the word as they have between them in English alphabetical order?

(a) 2

(b) 4

(c) 3

(d) 1

69. Select the correct option that will continue the pattern given in the series and replace the question mark (?)

ATTRIBUTION, TTRIBUTIO, RIBUTIO, IBUTI,

(a) IBU

(b) UT

(c) UTI

(d) BUT

70. Six boxes J, K, L, M, N and O are placed one above the other but not necessarily in the same order. J is placed just above N. Only one box is placed between K and O. O is the bottommost box and M is the topmost box. Which box is placed just below M?

(a) K

(b) J

(c) N

(d) L

71. Select the set in which the numbers have the same relationship as the numbers in the following sets. (Note: Operations should be performed on whole numbers without splitting them into their constituent digits. For example, operations on 13, such as addition/subtraction/multiplication, etc., should be performed on 13 only. Splitting 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not permitted.)

(6, 30, 54)

(16, 80, 144)

(a) (12, 48, 108)

(b) (8, 35, 72)

(c) (15, 75, 105)

(d) (21, 105, 189)

72. Just as 'fat' is related to 'thin', in the same way, 'inactive' is related to what?

(a) Noble

(b) Professional

(c) Active

(d) Hardworking

73. The age of a father is three times the sum of the ages of his two children. After 6 years his age will be twice the sum of the ages of both children. Find the age of the father.

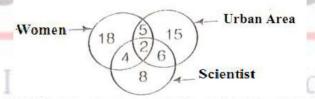
(a) 54 years

(c) 36 years

(b) 52 years

(d) 50 years

74. Study the given diagram carefully and answer the question asked. The numbers given in different sections represent the number of persons.



How many women scientists are there who are not from urban area?

(a) 6

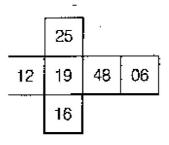
(b) 4

(c) 5

(d) 2

75. Which figure can be formed by folding the given question figure?

Question Figure





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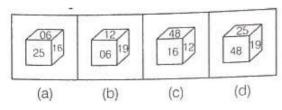
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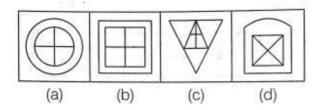
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Answer Figures



76. Which of the given figures is different from the other three?



77.From the following information, find out which is the old red car fitted with a Japanese engine?

Three cars, C, B and E are red in colour while the others are blue. D and F are new models while the rest are old. A, C and D are fitted with Japanese engines while the rest have Indian engines.

(a) B

(b) D

(c) A

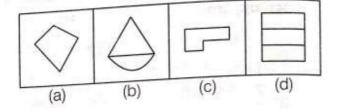
(d) C

78.Which of the following answer figures is included in the question figure?

Question Figure



Answer Figures



79.If Tanvi travels 10 km towards west, then turns south and travels 10 km, then turns east and travels 10 km and then turns north and travels 10 km. How far is she from the starting point?

(a) 40 km

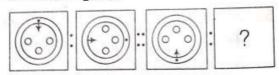
(b) 10 km

(c) 0 km

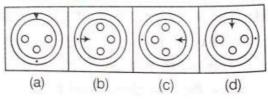
(d) 20 km

80. Select the related figure from the answer figures.

Question figures



Answer figures



- 81. 'One Rank One Pension Scheme' is related to?
- (a) For pension of soldiers after retirement
- (b) For providing pension to the poor
- (c) For providing new employment in the country
- (d) None of the above
- 82. Which digital scheme was launched to promote e-education in India?

(a) Setu

(b) Bridge

(c) Swayam Prabha

(d) None of the above

83. Super Nova is a

(a) Asteroid

(b) Black hole

(c) Comet

(d) Dying star

84. Which of the following stars is closest to the Earth?

(a) Ceres

(b) Sun

(c) Pole

(d) Alpha Centauri



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85.Which one of the following is not a form of precipitation?		93.In the original constitution, fundamental rights were classified into seven parts, but at present there		
(a) Fog	(b) Hailstorm	are only		
(c) Snowfall	(d) Rain	(a) 6	(b) 4	
86.The largest shippi	ng canal in the world is	(c) 3	(d) 2	
(a) Suez Canal in Egypt		94.Amjad Ali Khan is a	94.Amjad Ali Khan is associated with	
(b) Panama Canal in America		(a) Violin	(b) Sitar	
(c) Kiel Canal in Germ	nany	(c) Sarod	(d) Veena	
(d) Dive Canal in Sweden		95.Where is the Sahara desert located?		
87.Which state does not share border with China?		(a) North America	(b) Africa	
(a) Nagaland	(b) Uttarakhand	(c) Asia	(d) Europe	
	(c) Himachal Pradesh (d) Sikkim		96. Dhyanchand Trophy is related to	
88.The maximum temperature in the Thar Desert in the month of May is between		(a) Football	(b) Hockey	
		(c) Cricket	(d) Chess	
(a) 35°C — 37°C	(b) 37°C – 39°C	97. The word 'Bully' is related to		
(c) $40^{\circ}\text{C} - 43^{\circ}\text{C}$	(d) 43°C – 45°C	(a) Cricket	(b) Football	
89.Which of the following rivers is known as 'River of Sorrow of Bengal'?		(c) Hockey	(d) Volleyball	
(a) Hooghly	(b) Damodar		e President of India send his	
(c) Ghaghra	(d) Kosi	resignation? (a) Vice President of India		
90.In which month a	e Kharif crops sown?	(b) Prime Minister		
(a) April (b) June		(c) Chief Justice of India		
(c) September	c) September (d) November		(d) None of the above	
91.When were the first modern Olympic Games held?		99. Asking for personal information like bank account etc. of a person through e-mail etc. with		
(a) In 1899 A.D.	(b) In 1897 A.D.	the purpose of fraud is called?		
(c) In 1900 A.D.	(d) In 1896 A.D.	(a) Economic crime	(b) Phishing	
92.The state with the highest urban population in		(c) Cyber espionage	(d) Spam	
India is		100. Who built the Pea	acock Throne?	
(a) West Bengal	(b) Maharashtra	(a) Jahangir	(b) Aurangzeb	
(c) Tamil Nadu	(d) Karnataka	(c) Akbar	(d) Shahjahan	



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