RAILWAY RECRUITMENT BOARD

GROUP - C/D MODEL PAPER

Time: 90 mins. Marks: 100

Direction (1-2): In these questions select the alternative which has a relation with given four words.

- 1. Man, Arm, Preside, Person
 - 1) Woman
- 2) Chair
- 3) Leader
- 4) Dominate

- 2. Pigeon, Revolution, Cage, Leader
 - 1) Violence
- 2) Captivity
- 3) Coup
- 4) Follower

- **3.** Arrange the following in a meaningful order.
 - A) Rain
- B) Monsoon
- C) Rescue
- D) Floods

- E) Shelter
- F) Relief
- 1) ABDECF
- 2) ABCDEF
- 3) BADCEF
- 4) DABCFE
- **4.** During an interview, there were drivers who know how to drive cars, some buses and some only tempo vans. The company authority wished to select persons who know how to drive all the vehicles. How can they select using the letters used in the venn diagram?
 - 1) P
 - 2) O
 - 3) S
 - 4) N
- T N A O G S J B Q C
- 5. In this question, a statement is given followed by four alternative inferences. Select the one which is most appropriate.

Statement:

Many creative persons become artists.

Inference:

- 1) Some artists are creative persons.
- 2) A high level of creativity is needed to become an artist.
- 3) It is not possible to become an artist without creativity.
- 4) A creative person will certainly become an artist.
- 6. If '+' means division, '-' means multiplication, 'x' means minus, ' \div ' means addition then (75 × 25) 2 + 50 10 = ?
 - 1) 16.67
- 2) 12

- 3) 977.5
- 4) 20

Directions (7 - 8): Read the following information to answer these questions.

- P Q means Q is daughter of P
- $P \times Q$ means P is mother of Q
- P + Q means P father of Q

				•	
7.	Which of the following would definitely indicate that C is daughter of B?				
	1) $A - B \times C$	$2) B + C \times A$	3) B + C	4) None of these.	
8.	If $S \times M + N - T$, then which of the following is not true?				
	1) T is wife of M		2) S is grand mother of	N	
	3) T is mother in law of l	N	4) N is grand son of S	200	
9.	There are deers and peacocks in a zoo. By counting heads they are 80. The number of their legs is 20 Then how many peacocks are there?				
	1) 60	2) 20	3) 50	4) 30	
10.	Sarita is standing facing north, she walks 10 km straight, turns left and walks another 10 km and turns right and walks 5 km and finally turns left and walks 15 km to reach a park which direction is she facing now?				
	1) East	2) West	3) North	4) South	
11.	Find out the missing num	nber on the basis of a part	ticular trend.		
	8 17 33	777			
	12 5 29	20			
	10 13 ?	70,			
	1) 23	2) 33	3) 9	4) 43	
12.	If in a certain code MISTAKE is written as the 4356127. How would STEAM be written as that code?				
	1) 50713	2) 57614	3) 56741	4) 56714	
13.	13. A shopkeeper purchases 12 balloons for Rs.10 and sells them at 10 balloons for Rs.12, thus he cash a profit for				
	1) 35%	2) 36%	3) 75%	4) 50%	
14.	If the radius of a circle is	s increased by 50 % then	the area of the circle is in	creased by	
	1) 125%	2) 100%	3) 75%	4) 50%	
15.	A alone can complete a work in 16 days and B alone in 12 days. Starting with A, they work or alternative days, the total work will be completed in				
	1) 12 days	2) 13 days	3) $13\frac{5}{7}$ days	4) $13\frac{3}{4}$ days	
16.	A number divided by 68 given the quotient 269, and reminder zero. If the same number is divided by 67, the remainder is				
	1) 0	2) 1	3) 2	4) 3	
17.	$\left(\frac{1}{2}\right)^{-\frac{1}{2}}$ is equal to	$2)\sqrt{2}$			
	$1) \frac{1}{\sqrt{2}}$	$2)\sqrt{2}$	3) $2\sqrt{2}$	4) $\frac{1}{2\sqrt{2}}$	
18.	18. If the length and breadth of a rectangle are in the ratio 3 : 2 with its perimeter as 20 cm, then the area of the rectangle will be				
	1) 24 cm ²	2) 48 cm ²	3) 72 cm^2	4) 96 cm ²	
19.	In a hotel 60% had vegetarian lunch, while 30% had is non-vegetarian lunch and 15% had both types of lunch. If 96 people were present, how many did not eat either types of lunch?				
	1) 20	2) 24	3) 26	4) 28	

20.	The area of the largest circle, that can be drawn inside a rectangle with sides 18 cm, 14 cm is				
	1) 49 cm^2	2) 154 cm ²	3) 378 cm ²	4) 1078 cm ²	
21.	If the sides of a triangle are 5 cm, 6 cm and $\sqrt{41}$ cm, then the area of triangle is				
	1) 20 cm ²		2) $(5 + 4 + \sqrt{41})$ cm ²		
	3) $5 + 4 + \sqrt{41} \text{ cm}^{2/3}$		4) 10 cm ²	200	
22.	$(8 \div 88) \times 8888088$ is eq	qual to			
	1) 808008	2) 808088	3) 808080	4) 8008008	
23.	If $A : B = 2 : 3$ and $B : C$	= 4 : 5, then A : B : C is	10/7		
	1) 2 : 12 : 5	2) 8 : 12 : 15	3) 12 : 8 : 15	4) 15:12:8	
24.	A clock strikes once at 1 will it strikes in 24 hours		ck, thrice at 3 o' clock and	I so, on. How many times	
	1) 78	2) 136	3) 156	4) 196	
25.	In India, the Chief Justice	e of a high court is appoir	nted by the		
	1) Chief Minister of the o	concerned state			
	2) Governor of the conce	rned state			
	3) Chief Justice of India				
	4) President of India				
26.	Who among the following	g are likely to benefit from	m inflation in a country?		
< 1	1) Creditors	2) Debtors	3) Salaried people	4) Wage earners	
27.	Which of the following s	tatements is true?		7.	
	1) The Vice-President is elected for a period of six years				
		•	be the member of Rajya Sa		
			ent is different from that o	of the President.	
	4) Council of Ministers is	s responsible to the Presid	lent.		
28.	Mule is the hybrid of		0		
	1) Male donkey and fema				
	2) Male horse and a female				
	3) Male horse and female4) Female horse and male				
29.					
2),		unar eclipse occurs when earth is between the sun and the moon			
	2) moon is between the st				
	3) sun is between the mo				
	N		and the moon		
30.		4) earth is at right angle to the direction of the sun and the moon How many minutes for each degree of longitude does the local time of any place vary from the greenwich time?			
	1) 4	2) 6	3) 2	4) 8	

www.eenadupratibha.net 31. The basic characteristic of oilgopology is 1) a few sellers, a few buyers 2) a few sellers, many buyers 3) many sellers, one buyer 4) a few sellers, one buyer 32. The head quarters of International Labour Organization is located at 1) Geneva 2) Vienna 3) Zurich 4) Paris 33. In sports, the term 'Third eye' is connected with 4) Billiards 1) Archery 2) Cricket 3) Shooting 34. Electrification in rural areas can be done better and at cheaper rates through 2) bio gas 3) nuclear energy 1) coal power 4) solar energy **35.** The Upanishads deal with 2) religion of the hindus 1) social behaviour of man 4) all of these 3) ancient hindu laws **36.** Dadasaheb Phalke award is given to an achiever in the field of 4) Journalism 1) Cinema 2) Literature 3) Art 37. The behaviour of a perfect gas, undergoing any change in the variables which control physical properties is governed by 1) pressure exerted by the gas 2) volume occupied by the gas 3) temperature of the gas 4) all of these The amount of heat required to raise the temperature of 1 kg of water through 1°C is called as **38.** 1) specific heat at constant volume 2) specific heat at constant pressure 3) kilo calorie 4) none of these **39.** When gas is cooled at constant pressure 1) Its temperature increases but volume decreases. 2) Its volume increases but temperature decreases 3) both temperature and volume increase 4) both temperature and volume decrease 40. The actual vacuum in a condenser is equal to 1) barometric pressure + actual pressure 2) barometric pressure – actual pressure 3) gauge pressure + atmospheric pressure 4) gauge pressure – atmospheric pressure 41. Parsons turbine is 1) a simple impulse turbine 2) a simple reaction turbine 3) an impulse – reaction turbine 4) none of these

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2) Wheat stone bridge method

4) Lorentz method

Which method can be used for absolute measurement of resistances?

42.

1) Ohm's law method

3) Rayleigh's method

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43.	Which of the follo	wing can have positive of	or negative change?	
	1) Electron	2) Iron	3) Hole	4) Neutron
44.	Metals approach so	copes conductivity condi	ition	
	1) near absolute ze	ero temperature		
	2) near critical tem	perature		~
	3) at a triple point			
	4) under condition	s of high temperature an	d pressure.	100.
45.	Which of the follo	wing relations is incorre	ct	

1) Power factor $=\frac{\text{real power}}{\text{apparent power}}$ kW

2) Power factor =
$$\frac{kW}{kVA}$$

3) Power factor
$$=$$
 $\frac{\text{Resistance}}{\text{Impedance}}$

4) Power factor =
$$\frac{\text{conductance}}{\text{susceptance}}$$

- **46.** What did Madam Curie discover?
 - 1) Radio activity
- 2) Wireless
- 3) Aeroplane
- 4) Radium
- 47. Which of the following two metals are mixed in manufacturing stainless steel?
 - 1) Zinc, Chromium

2) Nickel, Chromium

3) Chromium, Iron

- 4) Nickel, Iron
- **48.** Which gas is evolved during photo synthesis in plants?
 - 1) Carbon Di oxide
- 2) Oxygen
- 3) Nitrogen
- 4) Hydrogen

- **49.** Why is ozone layer important to mankind?
 - 1) It creates a protective covering against Ultraviolet rays
 - 2) It remains the temperature of earth
 - 3) It release Oxygen in the atmosphere
 - 4) It release Carbon Dioxide in the atmosphere
- **50.** The temperature at which the volume of a gas becomes zero is called as
 - 1) absolute temperature

2) absolute zero temperature

3) absolute scale of temperature

- 4) none of these
- **51.** For the reversibility of a cycle, these should be
 - 1) loss of energy

2) no loss of energy

3) gain of energy

- 4) no gain of energy
- **52.** The amount of heat generated by per kg is known as
 - 1) heat energy

2) calorific value

3) lower calorific value

4) higher calorific value

www.eenadupratibha.net 53. A four stroke cycle petrol engine requires four strokes of the piston to complete 1) one cycle of operation 2) two cycles of operation 3) four cycles of operation 4) eight cycles of operation 54. The advantage of economiser is 1) it increase the efficiency of the boiler plant 2) it reduces the range of temperature between different parts of the boiler 3) it makes for more rapid evaporation 4) all of these 55. The joint in which the number of rivets decreases as we proceed from inner most now of the out most row, is known as 1) chain riveted joint 2) zig zag joint 4) double riveted butt joint 3) diamond riveted joint **56.** In case a hinged support the reaction 1) Ads in a direction perpendicular to the plane on which hing is supported 2) may be in any direction depending upon the bed 3) reactions are perpendicular to the plane of bottom surface of the structure. 4) none of these 57. Bitumen is a 1) natural organic substance 2) synthetic organic substance 3) semi-synthetic organic substance 4) none of these **58.** The electron emission method used in vacuum tube is 1) thermionic emission 2) low electric field emission 3) high electric field emission 4) none of these **59.** Open circuit test on transformers is conducted to measure 1) core loss 2) friction loss 3) copper loss 4) none of these **60.** As open fuse has a resistance of 1) zero 2) infinity 3) about 100 ohms at room temperature 4) at least 1000 ohms Electrical resistance and heating elements are made from 61. 3) nichrome 1) brass 2) copper 4) gun metal The energy is emitted from a body in tiny packets and not as continuous stream. This statement is based **62.**

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2) voltmeter

2) Bohr's theory

3) electrometer

4) Photo electric field effect

4) oscillator

1) Plank's quantum theory

Radiation can be detected by

3) Balmer theory

1) ammeter

63.

64.	The point though which the whole weight of the body acts irrespective of its position is known as			position is known as	
	 moment of inertia center of percussion 		2) center of gravity		
			4) none of these		
65.	A machine having an effici	iency less than 50 % is k	known as 2) non-reversible machine		
	1) reversible machine				
	3) either 1 or 2		4) Ideal machine		
66.	If the gravitational accelera	ation at any place is dou	eles, then the weight of body will be		
	1) $\frac{q}{2}$	2) g	$3)\sqrt{2g}$	4) 2g	
67.	The unit of acceleration is				
	1) kg	2) m/sec	$3) \text{ m/sec}^2$	4) rad/sec ²	
68.	A rubber ball is dropped fr will rise to a height of	A rubber ball is dropped from a height of $2\sqrt{a}$. If there is no loss of velocity after rebounding, the bal will rise to a height of			
	1) 1 m	2) 2 m	3) 3 m	4) 4 m	
69.	One watt is equal to	3			
	1) 0.1 Joule/sec	2) 1 Joule/sec	3) 10 Joule/sec	4) 100 Joule/sec	
70.	When the spring of a watch	h is wound, it will posse	ss		
	1) strain energy		2) kinetic energy	X,	
	3) heat energy		4) electrical energy	200	
71.	A beam which is fixed at one end and free at the other is called				
	1) simple supported beam		2) fixed beam	2.	
	3) overhanging beam		4) cantilever beam		
72.	According to first law of the	nermo dynamics	10		
	1) total internal energy of a system during a process remains constant				
	2) total energy of a system remains constant				
	3) work done by a system is equal to the heat transferred by the system.				
	4) Internal energy, enthalpy	AIV>			
73.	The transfer of heat from o		-		
	~ ~	2) conversion	3) radiation	4) any of these	
74.	The density of fluid varies	with the			
	1) change of temperature		2) change of pressure		
	3) change of temperature a	-	4) none of these		
75.	Piezometer is used to meas	sure			
	1) atmospheric pressure				
	2) very low pressure				
		3) very high pressure			
	4) difference in pressure between two points				

www.eenadupratibha.net **76.** Who was sworn in as the first woman advocate to directly become a Judge of the Supreme Court? 1) Anita Bansal 2) Vinita Grover 3) Ranjita Bisht 4) Indu Malhotra 77. When was international Chernobyl disaster remembrance day observed? 2) April 28 1) April 27 3) April 26 4) April 30 What is India's rank on the world press freedom index, released by reporters without borders (RSF)? **78.** 1) 126 2) 138 3) 115 4) 108 Who has sworn in as the 70th secretary of state of USA? **79.** 1) John Cornyn 2) Dick Durbin 4) Bob Corker 3) Mike Pompeo Who was launched his political party named 'Hamro Sikkim'? **80.** 1) Robin Hibu 2) Bhaichung Bhutia 4) Lou Majaw 3) Kiren Rijiju Which union ministry has launched the 2nd edition of the Unnat Bharat Abhiyan? 81. 1) Skill development Ministry 2) HRD Ministry 4) Agriculture Ministry 3) Commerce Ministry **82.** Who is launched Van dhan scheme of ministry of Tribal Affairs and TRIFED? 1) M. Venkaiah Naidu 2) Jual Oram 3) Ram Nath Kovind 4) Narendra Modi Which of the following has announced to launch the Atal New India challenge? 1) Skill development Ministry 2) HRD Ministry 3) NITI Aayog 4) IT Ministry 84. India is going to tie up with which countries to develop a pollution forecast system? a) Finland b) US c) Germany d) UK 2) b.c 3) c, d 1) a, b 4) a, d 127th Khongjom day was recently celebrated on 23rd April in which state? **85.** 2) Arunachal Pradesh 1) Manipur 3) Sikkim 4) Meghalaya 86. Tony Daniel who recently passed away, was associated with? 2) politics 1) journalism 3) film industry 4) sports **87.** Who has won this year's Martha Farrell award for excellent in women's empowerment? 1) Anu Mishra 2) Radhika Dasguptha 3) Nadiya Shafi 4) Shilpa Mehta Which state government has launched a Pravasi Pension scheme? 1) Kerala 2) Gujarat 3) West Bengal 4) Telangana

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2) HDFC bank

4) Axis bank

Which bank has launched its interactive human with IRA 2.0, in Bengaluru?

89.

1) ICICI Bank

3) State Bank of India

www.eenadupratibha.net Who has been conferred the 26th PC Chandra Puraskaar? 90. 1) Waheeda Rehman 2) Amitabh Bachchan 4) Asha Bhosle 3) Rishi Kapoor 91. Which F₁ driver won the Azerbaijan Grand Prix? 2) Valtteri Bottas 1) Lewis Hamilton 3) Sebastian Vettel 4) Sergio perez President Ram Nath Kovind attended the 620th pragatosav of Satguru Kabir in which state? 92. 2) Madhya pradesh 1) Rajasthan 3) Haryana 4) Maharastra 93. Which railway station going to be third in India to get 'airport-like' facilities by 2020? 3) Surat 2) Patiala 4) Kolhapur 1) Jhansi 94. India is going to have national database on disasters, by 2) 2019 3) 2022 4) 2020 How many medals did India win at the 56th Belgrade international boxing tournament held in Serbia? 95. 1) 10 3) 15 4) 6 96. Who has been appointed as interim judge to the civil court of New York city? 1) Pankaj Mittal 2) Deepa Ambedkar 3) Rita Barman 4) Monika Rao **97.** Geologist have discovered world's second oldest rock in which state in India? 4) Uttarkhand 1) Andhra Pradesh 2) Odisha 3) Karnataka 98. Which state's chief minister has launched Rythu Bandhu scheme (farmer's investment support scheme)? 1) Kerala 2) Tamilnadu 3) Karnataka 4) Telangana 99. Which of the following has launched a group messaging app named 'squirrel'? 3) Rediff 2) Bing 4) Outlook 1) Yahoo **100.** Which bridge built on river Brahmaputhra has become India's longest rail-cum-road bridge? 1) Narayana bridge 2) Bogibeel bridge 3) Sarai ghat bridge 4) Kolia Bhomora bridge

KEY

1-2; 2-4; 3-3; 4-1; 5-1; 6-1; 7-1; 8-1; 9-1; 10-2; 11-2; 12-4; 13-3; 14-1; 15-4; 16-2; 17-2; 18-1; 19-2; 20-2; 21-4; 22-1; 23-2; 24-3; 25-4; 26-2; 27-3; 28-1; 29-1; 30-1; 31-2; 32-1; 33-2; 34-4; 35-4; 36-1; 37-4; 38-3; 39-4; 40-2; 41-3; 42-1; 43-1; 44-2; 45-4; 46-4; 47-3; 48-2; 49-1; 50-2; 51-2; 52-2; 53-1; 54-4; 55-3; 56-1; 57-3; 58-1; 59-1; 60-2; 61-3; 62-1; 63-3; 64-2; 65-2; 66-4; 67-3; 68-4; 69-2; 70-1; 71-4; 72-3; 73-4; 74-3; 75-4; 76-4; 77-3; 78-2; 79-3; 80-2; 81-2; 82-4; 83-3; 84-1; 85-1; 86-4; 87-3; 88-1; 89-2; 90-4; 91-1; 92-2; 93-3; 94-4; 95-1; 96-2; 97-2; 98-4; 99-1; 100-2.

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