RRC PATNA GROUP 'D' EXAM

Held on : 08.12.2013 (First Sitting)

-	and the second	-
1	Choose the correct alterna- tive that will continue the same pattern and replace the question mark (2) in the giv- en series:	
	Z, U, Q, 2, L	1
	(1) I (2) K	
	(3) M (4) N	1
2		
-	Deepak is the son of Prem.	1
	Bimal is Prem's father. In	
	terms of relationship, what is	
	Anil of Bimal ?	
	(1) Son (2) Grandson	
	(3) Brother	
	(4) Grandfather	
3.		
	of B. E is married to C. C is	
	B's daughter. How is D relat-	
	ed to E ?	
	(1) Brother (2) Uncle	
	(3) Father-in-law	
	(4) Brother-in-law	
4.	A man is facing north-west.	
	He turns 90° in the clockwise	
	direction and then 135° in the	
	anti-clockwise direction.	
	Which direction is he facing	
	now ?	
	(1) East (2) West	
	(3) North (4) South	
5.		
	then turn right, then turn	
	right again and then go to the	
	left. In which direction are you now?	
	(1) North (2) South	
6.	(3) East (4) West A positive number which	1
	when added to 1000, gives a	
	sum which is greater than	
	that when it is multiplied by	
1	1000. This positive number	
	is :	
	(1)1 (2)3	

(4)7

(3)5

en to * so that the numb 91876*2 is divisible by 8 ? (1)1 (2)2 (3)3 (4)4 8. Three big drums contain 3 litres, 45 litres and 72 litr of oil. What biggest measur	B6 es
 (1) 1 (2) 2 (3) 3 (4) 4 8. Three big drums contain 3 litres, 45 litres and 72 litre of oil. What biggest measures 	es
 (3) 3 (4) 4 8. Three big drums contain 3 litres, 45 litres and 72 litre of oil. What biggest measured of the second s	es
8. Three big drums contain 3 litres, 45 litres and 72 litre of oil. What biggest measure	es
litres, 45 litres and 72 litre of oil. What biggest measure	es
of oil. What biggest measur	re
Sigest measu	nt
can measure all the differen	
quantities exactly ?	
(1) 4 litres (2) 9 litres	
(3) 3 litres (4) 36 litres	
9. $\frac{(0.35)^2 - (0.03)^2}{(0.03)^2} = ?$	
9. 0.19 = ?	
(1) 0.32 (2) 0.48	
(3) 0.64 (4) 0.76	
$10. \frac{2.3 \times 2.3 \times 2.3 - 1}{2.3 \times 2.3 + 2.3 + 1} = ?$	
(1) 0.3 (2) 1.3	
(3) 2.2 (4) 3.3	
tell to be the structure and on the	
11. $\frac{3^{n+2}-3^{n+1}}{3^{n+4}+3^{n+1}} = ?$	
$3^{n+4} + 3^{n+1} - 1$	
1	
(1) $\frac{1}{5}$ (2) $\frac{1}{10}$	
President and the	
(3) $\frac{1}{14}$ (4) $\frac{1}{28}$	
ister of the state of the state of the state of the	
2. If $\sqrt{1 + \frac{25}{144}} = 1 + \frac{x}{12}$, then the	
V 144 11 12, then the	-
value of x is :	
(1) 1 (2) 2	
(3) 5 (4) 9	
3. Of the three numbers, sec-	•
ond is twice the first and is thrice the third. If the aver-	1
age of three numbers is 44	•
the largest number is:	1
(1) 24 (2) 36	
(3) 72	
(4) 108	

	(1)(2xy-x)	(2) y
	(3) $\frac{y}{2}$	(4) $x(y-1)$
5.	. A reduction	n of 20% in the
	price of rice	enables a person kg more rice for
	₹ 385. The	original price of
	rice is:	the state of the
	(1) ₹ 20 per	kg
	(2) ₹ 22.50 p (3) ₹ 25 per	er Kg
	(4)₹ 27.50 p	
6.		liscounts of 30%,
	20% and 10	% are equivalent
	to a single d	
	(1) 60% (3) 49.4%	(2) 51%
		(4) 49.6%
7.	If $\frac{3a+5b}{3a+5b} =$	5, then a : b = ?
	(1)2:1	
	(3) 5 : 2	(2)3:2 (4)5:3
3.		of a uniform rod
	weighs 85.5	kg, what will be
	the weight o	of 6 metre of the
	same rod ? (1) 22.8 kg	(2) 25 G las
	(3) 26.5 kg	(4) 28 kg
).	20 men com	lete one third of
	a piece of w	olete one third of ork in 20 days.
	How many n	nore men should
	of the work in	to finish the rest n 25 more days ?
	(1) 10	(2) 12
	(3) 15	(4) 20
•	A large tank	er can be filled
	by two pipes	A and B in 60 40 minutes re-
	spectively. H	low many min-
	utes will it	take to fill the
	tanker from e	empty state if B
	A and B fill it	alf the time and together for the
	othen helf ?	oberner for the

1

18

19

20

other half ?

14. The average of two númbers is xy. If one number is x, the other number is :
(1)(2xy - x) (2)y

	(1) 15	hosted at www.ed	tucationobserver.com/forum
	(1) 15 minutes (2) 20 minutes	27. If $2x + 3y = 29$ and $y = 3$	tucationobserver.com/forum x + 3, (1) Mahavira
	(3) 27.5 minutes	what is the value of x ?	(2) Rishabhadeva
		(1) 4 (2) 5	(3) Parshwanath
91	(4) 30 minutes	(3) 6 (4) 7	(A) Adimath
41.	• A star is 8.1×10^{13} km away from the earth. Suppose light	28. If the length of a rectan	gle is an in the second
(auto)	travels at the speed of 3×10^5	increased by 20% and breadth is decreased by	
	km per second. How long will	then its area:	20%, (1) Tuluva Dynasty
•010	it take the light from star to	(1) increases by 4%	(2) Harihara Dynasty
	reach the earth ?	(2) decreases by 4%	(3) Pala Dynasty
	(1) 7.5×10^3 hrs	(3) decreases by 1%	(4) Krishna Dynasty
	(2) 7.5×10^4 hrs	(4) remains unchanged	37. The 'Battle of Khanwa' was
	$(3) 2.7 \times 10^{10} \text{ sec}$	29. By how much percent a	
	(4) 2.7×10^{11} sec	torist should increase	e his (1) Ibrahim Lodhi
22.		speed in order to reduce	e the (2) Medini Raj
	give ₹ 1 as simple interest	time by 20%, taken to c	cover (3) Rana Sanga
	per day at the rate of 5% per	a certain distance ?	
	annum is :	(1) 20% (2) 25%	(4) Rana Pratap
	(1)₹ 7300 (2)₹ 3650	(3) 30%	38. Tattvabodhini Sabha' was
00	(3) ₹ 730 (4) ₹ 36500	(4) None of these	founded in 1839 by:
23.	The diagonal of a square is	121	(1) Ram Mohan Roy
	$4\sqrt{2}$ cm. The diagonal of an-	30. $\frac{12.1}{19.8} = ?$	(2) M.G. Ranade
	other square whose area is		(3) Radhakant Dev
	double than that of the first	(1) $\frac{7}{9}$ (2) $\frac{13}{17}$	(4) Debendranath Tagore
	square is :	(1) 9 (2) 17	39. The immediate cause of the
10	(1) 8 cm (2) 8 2 cm	A DECEMBER OF THE REAL PROPERTY.	revolt of 1857 was :
	0V2	(3) $\frac{11}{18}$ (4) $\frac{11}{19}$	(1) Stoppage of salary of se-
5 14	(3) 16 cm (4) $16\sqrt{2}$ cm	19	poys
24.	The total surface area of a		
	cube is 150 cm ² . Its volume is:	'Harappa' was situated on bank of the river :	
		(1) Ravi (2) Indus	fles
	(=/ x=0 cm	(3) Ghaggar (4) Luni	(4) Killing of Mangal Pandey
-		32. The number of main 'Puran	by the British
20.	In the given figure, AOB is a	are :	
	straight line; $\angle AOC = (3x + 20)^\circ$ and $\angle BOC = (4x - 36)^\circ$.	(1) 8 (2) 10	not a founder member of
	The value of x is :	$\begin{array}{c} (1) & (2) & 10 \\ (3) & 12 & (4) & 18 \end{array}$	'Swaraj Party' ?
		33. Who killed Bimbisara to se	(1) Motilal Nehru
		the throne ?	- Andres Coundin
	$(3x+20^\circ)$ $(4x-36^\circ)$ $(4x-36^\circ)$	(1) Ugrasena	(3) C.R. Das
	<	(2) Udayin	(4) N.C. Kelkar
	A O B	(3) Ajatashatru	41. Which of the following move-
	(1) 32 (2) 22		ments was withdrawn by
	(9) 00	(4) Chandragupta Maurya 34. Who was the methor	Gandhiji after Chauri-Chaura
26.	If $3 \cot \theta = 4$, then	34. Who was the mother Gautam Buddha?	
		(1) Lakshmi	(1) Non-cooperation Move-
	$\frac{5\sin\theta + 3\cos\theta}{5\sin\theta - 3\cos\theta} = ?$	(2) Mahamaya	ment
	SSIN 0-3COS0		(2) Khilafat Movement
1 11:5	1 states and 1 as a so	(3) Trishala	(3) Dandi Movement
A Fail	(1) $\frac{1}{9}$ (2) $\frac{1}{3}$	(4) Satyani	(4) Quit India Movement
. ((3) 3 (4) 9	35. Who is considered 24 Tirthankar in Jainism ?	42. Who among the following is called 'Frontier Gandhi' ?

 (1) Bal Gangadhar Tilak (2) Sardar Vallabhbhai Patel (3) Gopal Krishna Gokhale 	51. Who among the following is associated with the "Theory of Inheritance of Acquired	(1) Chadwick (2) Rutherford
(4) Khan Abdul Ghaffar Khan	Characters" ?	(3) J.J.Thomson
43. Days and Nights are caused	(1) Lamarck (2) Darwin	(4) Goldstein
due to :	(3) Linnaeus (4) Mendel	61. As per Newton's Third Law
(1) Revolution of the Earth around the Sun	52. Rearing of honey bee for hon- ey is called :	of Motion :
(2) Rotation of the Sun	(1) Pisciculture	(1) A body maintains its ini-
(3) Rotation of the Earth on	(2) Honey Culture	tial state of rest or motion
its axis	(3) Apiculture	$(2) \mathbf{F} = \mathbf{ma}$
(4) Revolution of the Moon	(4) Haemiculture	(3) Acceleration
around the Earth	53. The weight of human liver is	Change in Velocity
44. A 'Lunar Eclipse' takes place	about :	Time
when it is :	(1) 300 gms	(4) To every action, there is
(1) Full moon (2) New moon	(2) 140 gms	an equal and opposite re-
(3) May and July only (4) None of these	(3) 500 gm to 1 kg	action
45. Which of the following plan-	(4) 1.5 kg to 2 kg	62. Which of the following is the audible frequency range for
ets is called 'Red Planet' ?	54. Which disease is caused due to deficiency of Iodine in food ?	human ear ?
(1) Venus (2) Mercury	(1) Jaundice (2) Joint-Pain	(1) 10,000 Hz to 20,000 Hz
(3) Mars (4) Jupiter	(3) Meningitis (4) Goitre	(2) 20,000 Hz to 40,000 Hz
46. Which is the largest State of	55. Which is the most important	(3) 10 Hz to 10,000 Hz
India in terms of area ?	nutrient for physical growth?	(4) 20 Hz to 20,000 Hz
(1) Madhya Pradesh	(1) Fat (2) Protein	63. Which of the following is an
(2) Rajasthan (3) Uttar Pradesh	(3) Vitamin (4) Minerals	ore of calcium ?
(4) Maharashtra	56. Which of the following is not	(1) Dolomite (2) Cinnabar
47. 'Gir National Park' is situat-	an example of hardware ? (1) An MP3 file	(3) Smelite (4) Magnetite
ed in :	(1) An MrS me (2) A Keyboard	64. Which law says that "At con- stant temperature, the vol-
(1) Rajasthan (2) Assam	(3) A Monitor	ume of a definite mass of a
(3) Uttar Pradesh	(4) A Mouse	gas is inversely proportional
(4) Gujarat	57. Sending an e-mail is similar	to pressure"?
48. Which of the following rivers	to:	(1) Charle's Law
does not fall into the Bay of	(1) Creating an image	(2) Avogadro's Law
Bengal ? (1) Narmada (2) Godavari	(2) Narrating a story	(3) Boyle's Law
(1) Narmada (2) Godavari (3) Ganga	(3) Writing a letter	(4) None of these
(4) Brahmaputra	(4) Creating a drawing	65. The chemical formula of Sul- phuric acid is:
49. India's first satellite 'Aryab-	58. Which of the following is an icon on the disk top that pro-	(1) HS _o Cl
hatta' was launched in the	vides the user with immedi-	(1) $H_{2}SO_{4}$ (2) $H_{2}SO_{4}$
year:	ate access to a programme or	$(3) \operatorname{Al}_2(\operatorname{SO}_4)_3$
(1) 1972 (2) 1975	file?	(4) None of these
(3) 1974 (4) 1980	(1) Shortcut (2) Kernel	66. Which article of our Consti-
50. 'Waltair' is a Division of which Railway ?	(3) Buffer (4) Spooler	tution lays down the proce-
(1) South Western Railway	59. The optical fibre works on the principle of :	dure of amendment in the
(2) East Coast Railway	(1) Reflection	Constitution ?
(3) Southern Railway	(2) Refraction	(1) Article 25 (2) Article 124
(4) South East Central Rail-	(3) Total internal reflection	(2) Article 124 (3) Article 368
way	(4) Rainbow formation	
the second second second second second	the second second	(4) Article 123

and the second and the second of the second s	
67. Who was the	Chairman of
the Drafting	Committee of
the Constituer	it Assembly?
(1) Dr. B.R. Am	
(2) Dr. Rajendra	Prasad
(3) Sardar Valla	
(4) J.B. Kripala	
68. Who is the ex-	officio Chair-
man of the Raj	va Sabha ?
(1) The Speake ha	r of Lok Sab-
(2) The Presider	90 . C T. J. (00
(3) The Chief Ju	
(d) The Office of	istice of India
(4) The Vice-Pro	esident of In-
69. The representa	
in Lok Sabha se	tion of Bihar
(1) 40 Seats (
(3) 26 Seats (4) 49 Seats
70. The Governor of	
dia is :	a State in In-
(1) Directly elect	od bu the second
ple of India	ed by the peo-
(2) Appointed b	
Chief Ministe	er of the state
(3) Appointed b	
Minister	, the rime
(4) Appointed by	v the Presi-
dent	93.00
71. In Indian econo	my, the sec-
tors are classifie	d into Public
and Private on t	he basis of :
(1) Employment	
(2) Nature of Eco	nomic Activ-
ities	Sector Sector
(3) Ownership of	Enterprises
(4) Use of Raw M	The second second
72. Which bank v	
called the "Impe	
India" ?	A MINTER A
(1) RBI (2	SBI
(3) UBI (4	PNB
73. Arjuna Award is	A CONTRACTOR OF THE OWNER OF THE
(1) Bravery on ba	
(2) Outstanding	
in Sports	iden RE
(3) Exceptional	Service in
emergency	the sea of
(4) Only for outs	
formance in A	Archery

74. 'International Court of Jus-	ţ
tice,' the principal judicial or-	
gan of the UN is situated in :	1
(1) Hague (2) London	1
(3) New York (4) Geneva	1
75. 'Lakshman Jhula' is situated	
in :	1
(1) Rajgir (2) Kolkata	ł
(3) Rishikesh (4) Mount Abu	1
76. Where is the Headquarters of	1
"Assam Rifles" ?	I
(1) New Delhi	l
(2) Guwahati	
 (3) Darjeeling 	
(4) Shillong	
77. Pankaj Advani is associated	
with which game ?	
(1) Golf (2) Hockey	
(3) Chess (4) Billiards	
78. The number of districts in Bi-	į.
har is:	
(1) 32 (2) 38	
(3) 43 (4) 28	
79. The United Nations declared	
2005-2015 as the Internation- al Decade for:	
(1) Water for Life Decade	
(2) United Nations Literacy	
Decade	
(3) Second International De-	
and for the Deal' i' al	
Colonism	
(4) International Decade for	
Natural Disaster Reduc-	
tion	
80. Who was the first woman to	
win the Jnanpith Award ?	
(1) Mahadevi Verma	1
(2) Amrita Pritam	
(0) Mahasha Dent	

(3) Mahashweta Devi

(4) Ashapurna Devi

81. If 4 * 2 a 3 = 6, 18 * 6 a 4 = 12, then what will be the value of 24 * 3 a 7 ? (1) 21 (2) 27

(3) 72 (4) 56

(3) 137

 If T means '+', 'U' means '-', 'V means '+', and W means '+' then what will be the value of the following expression ? (50 V 2) W (28 T 4) (1) 142 (2) 158

(4) 163

- 83. Raja walks slower than Raghu and Raghu walks as fast as Guru and Krishna walks faster than Guru. Who walks the fastest ?
 - (1) Raghu
 - (2) Raja
 - (3) Krishna
 - (4) Both Raghu and Guru
- 84. Consider five people A, B, C, D and E, each having different age. A is younger than only B. C is older than D. D is not the youngest. Who among the following are older than C ?
- (1) A and B (2) E, B and A (3) A and E (4) E and B
- 85. In a certain code language, 'tom kun sud' means 'dogs are barking', 'kun jo mop' means 'dogs and horses' and 'mut tom ko' means 'donkeys are mad'. Which word in that language means 'barking' ? (1) sud (2) kun

(3) jo	(4) tom

86. If 'Sky' is 'Star', 'Star' is 'Cloud', 'Cloud' is 'Earth', 'Earth' is 'Tree' and 'Tree' is 'Book', then where do birds fly?

(1) Cloud (2) Sky

(3) Star

(4) Data inadequate

87. If in a code language, PAINT is written as 74128 and EX-CEL is written as 93596, then how will ACCEPT be written in that language ?

(1) 455978(2) 544978(3) 554978(4) 733961

88. If in a code language, MIN-ERAL is written as QRSTU-VW and SOUND is written as ABCSD, then how will READ-ER be written in that code ?
(1) SBFEFS
(2) UTVDTU
(3) TUDVUT
(4) QDZCDQ

89. Four words are given below	96. Choose the correct alterna-
as alternatives out of which	tive that will continue the
three are alike in some man-	same pattern and replace the
ner while the fourth is differ-	question mark (?) in the giv-
ent. Choose out the odd one.	en series:
(1) IMF (2) SAARC	1, 4, 27, 16, 2, 36, 343
(3) UNICEF (4) WHO	(1) 25 (2) 87
90. Four words are given below	(3) 120 (4) 125
as alternatives out of which	97. Choose the correct alterna-
three are alike in some man-	tive that will continue the
ner while the fourth is differ-	same pattern and replace the
ent. Choose out the odd one.	question mark (?) in the giv-
(1) Magazine	en series:
(2) Novel	3, 12, 27, 48, 75, 108, 2
(3) Dictionary	(1) 147 (2) 162
(4) Thesis	(3) 183 (4) 192
91. Four words are given below	98. Which of the following will
as alternatives out of which	not be a member of the se-
three are alike in some man-	ries ?
ner while the fourth is differ-	1, 8, 27, 64, 125,
ent. Choose out the odd one.	(1) 256 (2) 512
(1) Pan'aji (2) Bhopal	(3) 729 (4) 1000
(3) Pune (4) Shillong	99. Choose the correct alterna-
92. 'Doctor' is related to 'Diagno-	tive that will continue the
sis' in the same way as 'Judge'	same pattern and replace the question mark (?) in the giv-
is related to :	en series:
(1) Court	WFB, TGD, QHG, 2
(2) Punishment	(1) NIJ (2) NIK
(3) Lawyer	(3) NJK (4) OIK
(4) Judgement	100. Choose the correct alterna-
93. 'Paddy' is related to 'Field' in	tive that will continue the
the same way as 'Steel' is re-	same pattern and replace the
lated to :	question mark (?) in the giv-
(1) Mine (2) Factory	en series:
(3) Iron (4) Ore	Al, BJ, CK, ?
94. 'Bouquet' is related to 'Flow-	(1) GH (2) DM
ers' in the same way as 'Sen-	(3) DL (4) LM
tence' is related to :	
(1) Construction	
(2) Words	
(3) Letters	
(4) Paragraph	
95. Choose the correct alterna-	
tive that will continue the	
same pattern and replace the	
question mark (?) in the giv-	
en series:	
0, 6, 24, 60, 120, 210, ?	
(1) 240 (2) 290	
(3) 336 (4) 504	