RRB Assistant Loco Pilot and Technician

Model Paper - III

General knowledge, Reasoning, Arithmetic

1.	The maximum efficiency of full wave rectifier is?					
	a) 40.1 %	b) 81.2 %	c) 90 %	d) 98 %		
2.	R.C. Coupling is u	sed for amplifica	tion of the?			
	a) Current	b) Resistance	c) Power	d) Voltage		
3.	A 'PNP' Transisto	r is made of?				
	a) Germanium		b) Silicon			
	c) Either (a) or (b)		d) None			
4.	The addition of p	entavalent impur	rity to a semi condu	ictor creates?		
	a) Holes		b) Free electron	s		
	c) Minority electro	ons	c) Majority elect	rons		
5.	Claw hammer is r	mostly used in?				
	a) Fitter trade		b) Tool and Die			
	c) Carpentry		d) Black smithy			
6.	The Unit of capac	itance is?				
	a) Volt	b) Coulomb	c) Farad	d) None		
7.	Good conductor o	f electricity is?				
	a) Copper	b) Iron	c) Aluminum	d) Silver		
8.	Grinding wheels are made by?					
	a) Iron & Stone		b) Rod & Sand			
	c) Sand		d) Abrasive & Bo	ond		

9.	We can do reaming after?						
	a) Milling	b) Shaping	c) Drilling	d) Spot facing			
10.	Sine bar is used	for checking and se	tting of?				
	a) Round	b) Triangle	c) Angle	d) Square			
11.	What Drill Size	should be used for N	V10 tapping?				
	a) 8.1 mm	b) 8.8 mm	c) 8.6 mm	d) 8.2			
12.	Tie rod is part o	of which machine?					
	a) Planner	b) Shaper	c) Milling	d) Lathe			
13.	If four resistant	ce valve of every res	istance is "R" ohm	in parallel			
	connection then the total resistance is?						
	a) 4R	b) 2R	c) R	d) R/4			
14.	Which of the fo	ollowing is needed w	hile marking on re	ound job?			
	a) Bolt	b) Block	c) <mark>V</mark> -Block	d) H-clamp			
15.	The mixture of	solder wire is?					
	a) Tint Zinc	b) Zinc + Lead	c) Tint Lead	d) None			
16.	Rs.900 are dist	ributed among A, B	& C in the ratio 4:	5: 6 what will be			
	the difference of the shares of A and C?						
	a) Rs. 25	b) Rs. 120	c) Rs. 130	d) Rs. 150			
17.	In a zoo there a	are Rabbits and Pige	ons. If their heads	are counted these			
	are 90, while th	neir legs are 224, the	n the number of "	'Pigeons"?			
	a) 68	b) 70	c) 72	d) 80			
18.	A cistern is fille	d in 9 hrs and it take	es 10 hrs when the	ere is a leak in its			
	bottom. If the	cistern is full, time t	o empty?				
	a) 80 hrs	b) 85 hrs	c) 90 hrs	d) 95 hrs			

19.	The average da	ily wage of X, Y and	Z are Rs. 120. If Y	earns Rs. 40 more		
	than Z and X earns double of what Z earns, wage of "X" is?					
	a) Rs. 80	b) Rs. 120	c) Rs. 160	d) Rs. 100		
20.	The father is se	ven times older tha	n his son. After 4 y	ears, the sum of		
	their ages would be 50 yrs. The Son's present age?					
	a) 5 yrs	B) 6 yrs	c) $5\frac{1}{4}$ yrs	d) 9 yrs		
21.	The S.I unit of F	Resistance is?				
	a) Joule	b) Ohm	c) Watt	d) Ampere		
22.	When an iron n	ail gets rusted weig	ht?			
	a) Increases	b) Decreases	c) No change	d) None		
23.	If a body of ma	ass "m" moving on o	ircular path of radi	ius "R" with		
	velocity "w" th	nen the centripetal i	is?			
	a) ½ m v ²	b) mω ² R	c) mV ²	d) Rω ²		
24.	The element co	mmon to all acids?				
	a) Oxygen	b) Chlorine	c) Sulphur	d) Hydrogen		
25.	Right to Information Act comes in to force in the year?					
	a) 2005	b) 2006	c) 2009	d) 2004		
26.	Who among the	e following "First la	w officer" of the Go	overnment of		
Indi	a?					
	a) Solicitor Gen	eral	b) Attorney General			
	c) Chief Justice		d) CAG			
27.	Who was the s	econd president of	India?			
	a) Dr. Zakir Hus	sain	b) V.V.Giri			
	c) N. Sanjeev Re	ddy	d) S. Radha Krisl	hnan		

28.	The period of First Five Year Plan was?					
	a) 1947-1952	b) 1949-1954	c) 1951-1956	d) 1956-1961		
29.	Nobel Prize is no	ot given is which of	the following field	s?		
	a) Physics	b) Biology	c) Chemistry	d) Peace		
30.	Wankhede Stad	ium is situated in?				
	a) Mumbai	b) Nagpur	c) Pune	d) Bengaluru		
31.	"The Leaning to	wer of Pisa" is situa	ated in?			
	a) France	b) England	c) Egypt	d) Italy		
32.	Complete the se	eries $11\frac{1}{9}$, $12\frac{1}{2}$, 14	27, 16 2/3, ([?])?			
	a) $8\frac{1}{3}$	b) 20	c) 19 $\frac{1}{2}$	c) $22\frac{1}{3}$		
33.	Complete the se	eries 45, 54, 47,	, 49, 56, 51, 57, 53	2		
	a) 55	b) 48	c) 50	d) None		
34.	In ancient India	which of the follow	ving capital of Kalin	iga?		
	a) Ujjain	b) Talcila	c) Toshali	d) Pataliputra		
35.	The Indian valle	y Civilization was p	rimarily?			
	a) Tribal	b) Urban	c) Rural	d) Local		
36.	The percentage	of oxygen in the at	mosphere is?			
	a) 29 %	b) 78 %	c) 21 %	d) 0.03 %		
37.	"Kanchanagang	ga" mountain peak	is in?			
	a) India	b) Nepal	c) Bhutan	c) Tibet		
38.	Which of the fo	llowing is the busie	st human organ?			

			0	
	a) Nose	b) Heart	c) Kidney	d) Liver
39.	<i>"Kavaratti"</i> is th	ne Capital of?		
	a) Lakshadweep		b) Daman & Diu	
	c) Dadra & Naga	r Haveli	d) Mizoram	
40.	Following is Best	t Conductor of Hea	t?	
	a) Mercury	b) Silver	c) Leather	d) Benzene
41.	The oldest mour	ntains in India are		
	a) Himalayas	b) Aravallis	c) Naga Hills	d) Siwaliks
42.	Who was the for	under of Chola Dyn	asty?	
	a) Vijayalaya	b) Raja raja	c) Rajendra-I	d) None
43.	Ascorbic acid is?	(
	a) Vitamin –D	b) Vitamin –B	c) Vitamin –A	d) Vitamin –C
44.	Who said "Swar	aj is <mark>my birth right</mark> a	and I will have it?"	
	a) Mahatma Gandhi		b) Jawaharlal Ne	ehru
	c) Subhash Chandra Bose		d) Bal Gangadhar Tilak	
45.	The lion capital a	at Sarnath is associ	ated with?	
	a) Ashoka	b) Gopala	c) Bimbisara	d) Ajatasatru
46.	Sum of the first	fifteen natural num	bers is?	
	a) 130	b) 110	c) 120	d) 140
47.	How many odd i	numbers are there	from 1 to 81?	
	a) 42	b) 41	c) 40	d) 43
48.	$(\sqrt{1})^2 + (\sqrt{2})^2 + (\sqrt{2})^2$	$\sqrt{3}$) ² + ($\sqrt{4}$) ² = ?		
	a) 6	b) 8	c) 10	d) 9

49.	19. If $(\sqrt{3})^x = 1$ then the value of 'x' is?					
	a) 0	b) √3		c) 1	d) $\frac{1}{\sqrt{3}}$	
50.	Which of the fo	lowing is the	smalle	st quantity?		
	a) $-\frac{1}{2}$	b) $\frac{1}{2}$		c) $\frac{1}{\sqrt{2}}$	d) $\frac{1}{(-2)^2}$	
51.	"Mary Kom" is a	ssociated wit	h?			
	a) Wrestling		b) Bo	oxing		
	c) Archery		d) W	eight lifting		
52.	Hill: Mountain::	Sea :?				
	a) Lake	b) Ocean		c) River	d) Water fall	
53.	Pick the odd one	e out amongst	the fo	llowing?		
	a) Pink	b) green		c) Indigo	d) Violet	
54.	In a code langua	ge if BCD is w	ritten	as ABC then UV	W will be written	
as?						
	a) XYZ	b) BCD		c) RST	d) MNO	
55.	In a code if 'A' is	written as 'Z'	' , 'B' is	written as 'Y' a	nd 'C' is written as	
	'X' then DEF will be written as?					
	a) WVU	b) RST		c) SRQ	d) ONM	
56.	Which country h	has the largest	numb	er of post office	es in the world?	
	a) USA	b) China		c) India	d) Russia	
57.	The Eight Sched	lule of the Ind	ian Co	nstitution deals	?	
	a) States in India		b) Fu	indamental Right	nts	
	c) Fundamental Duties		d) La	d) Languages in India		

58.	Voltmeter is a device used to measure?					
	a) Current	1	b) Resistance			
	c) Potential diff	erence	d) None			
59.	Gobi desert located in which country?					
	a) India	b) China	c) Asia	d) Africa		
60.	Where would	you see a "TORNA	ADO" the most?			
	a) Russia	b) China	c) Brazil	d) USA		
61.	The needle of c	ompass always p	oints forwards?			
	a) South	b) North	c) West	d) East		
62.	Titan is a moor	n of?				
	a) Saturn	b) Jupiter	c) Mars	d) Uranus		
63.	"Hydrophobia"	" is associated wit	th?			
	a) Tetanus	b) Meningitis	c) Rabies	d) Dengue		
64.	The price of pen after a discount of 10 % is Rs. 45 what is the original					
	price?					
	a) Rs. 50	b) Rs. 55	c) Rs. 60	d) Rs. 47.5		
65.	If 300 is decrea	sed by 2.5 %, the	answer is?			
	a) 292.5	b) 296.5	c) 297.5	d) 295		
66.	How many nun	nbers between 10	1 and 300 are exact	ly divisible by both		
	3 and 5?					
	a) 13	b) 14	c) 15	c) 16		
67.	In a clock the a	ngle traced by the	e hour hand in 12 hr	s is?		
	a) 360°	b) 180 ⁰	c) 90°	d) 30 ⁰		

How many days are there in a leap year?					
a) 367	b) 366	c) 364	d) 365		
Which of the	following is not a pr	ime number?			
a) 97	b) 191	c) 221	d) 441		
The unit digit	in $(3^{65} \times 6^{59} \times 7^{71})$ is	s?			
a) 1	b) 2	c) 4	d) 6		
Pointing to a l	Photograph Arun sa	id "she is the mother	of my <mark>son's</mark>		
wife's daught	er", Arun related to	the lady?			
a) Uncle	b) Cousin	c) Father-in-law	d) None		
What will be t	the difference betw	een the <mark>sum</mark> of the od	d digits and the		
sum of the even digits in the number 857423?					
a) 0	b) 1	c) 2	d) 4		
sin60 ⁰ .cos30 ⁰	$+\cos^{0}.\sin^{3}0^{0}=?$				
a) $\frac{3}{2}$	b) $\frac{5}{2}$	c) 1	d) $\frac{\sqrt{2}}{3}$		
$\frac{(569+163)^2}{569}$	$(569 - 163)^2 =?$				
		-1 405	d) North		
a) 2	D) 4	C) 406	d) None		
Two numbers	are less than a third	d number by 30% and	37%		
respectively.	How much percent	is the second number	less than the		
fist?					
a) 10 %	b) 15%	c) 20%	d) 25 %		
	a) 367 Which of the f a) 97 The unit digit a) 1 Pointing to all wife's daught a) Uncle What will be f sum of the ev a) 0 sin60°.cos30° a) $\frac{3}{2}$ $\frac{(569 + 163)^2}{569}$ a) 2 Two numbers respectively. fist?	a) 367 b) 366 Which of the following is not a prive is prive is prive i	a) 367 b) 366 c) 364 Which of the following is not a prime number? a) 97 b) 191 c) 221 The unit digit in $(3^{65} \times 6^{59} \times 7^{71})$ is? a) 1 b) 2 c) 4 Pointing to a Photograph Arun said "she is the mother wife's daughter", Arun related to the lady? a) Uncle b) Cousin c) Father-in-law What will be the difference between the sum of the odd sum of the even digits in the number 857423? a) 0 b) 1 c) 2 sin60 ⁹ .cos30 ⁹ +cos ⁹ .sin30 ⁹ =? a) $\frac{3}{2}$ b) $\frac{5}{2}$ c) 1 $\frac{(569 + 163)^2 \cdot (569 - 163)^2}{569 \times 163}$ =? a) 2 b) 4 c) 406 Two numbers are less than a third number by 30% and respectively. How much percent is the second number fist?		

76. Material used for making Bushes?

	a) White metal	b) Brass	c) Gun metal	d) C.I
77.	Bench vice spind	e has?		
	a) V-threads	b) Square threads	
	c) Acme threads	c	I) None	
78.	B.S.W thread has	thread angle of	?	
	a) 60 ⁰	b) 45 ⁰	c) 37 ⁰	d) 55 ⁰
79.	Lip clearance ang	le in a drill is ke	pt?	
	a) 30 ⁰	b) 45°	c) 15 ⁰	d) 25 ⁰
30.	How many tool h	neads can be mo	ounted on planer mad	thine?
	a) 4	b) 1	c) 3	d) 2
81.	Ratio of worm &	warm wheel in	dividing head is?	
	a) 12 : 1	b) 24 : 1	c) 40 : 1	d) 80 : 1
32.	A device that con	verts from deci	mal to binary system	is called?
	a) CPU	b) Decoder	c) Converter	d) Encoder
3.	Which of the follo	owing operation	cannot be done on r	milling machines?
	a) Cutting splines	t) Cutting gears	
	c) Cutting helical	groove d	l) Gear shaping	
34.	The limits of Hole	are 25.00 and	25.021 and that of a s	haft are 25.022
	and 25.032 the ty	pe fit is?		
	a) Interference	b) Clearance	c) Transition	d) None
85.	Shafts transmitti	ng power at righ	t angle to each other	are connected
	by?			
	a) Helical gears	b) Spur gears	c) Bevel gears	d) Spiral gears
	and a set of a set of the set of the	and the second	The second s	and the second second second

86.	A force "F" acts on a body with an angle "θ" to the horizontal then its vertical component of force is?					
	a) F Sin 0	b) F Cos0	c) $\frac{F}{\sin\theta}$	d) $\frac{F}{\cos\theta}$		
87.	Turning water tap	is an example o	f?			
	a) Force	b) Torque	c) Couple	d) Moment		
88.	The relation betw	een coefficient o	of friction and an	ngle of friction is?		
	a) µ=tanφ	b) μ=tan ⁻¹ θ	c) μ=sinφ	d) μ=cosφ		
89.	If the efficiency of	a machine is 100	% then it is call	ed?		
	a) Simple machine b) Ideal machine					
	c) Lifting machine	d) (None			
90.	The centre of gravity of hemi sphere from the base if r = radius of the					
	sphere?					
	a) $\frac{4r}{3\pi}$	b) $\frac{3r}{8}$	c) $\frac{2r}{7}$	d) $\frac{r}{3}$		
91.	Which of the follo	wing is a class – I	lever?			
	a) Pliers	b) Nut cracker	c) Tongs	d) None		
92.	Scalar is a type of	physical quantity	having magnitu	ude but lacking?		
	a) Weight	b) Magnitude	c) Speed	d) Acceleration		
93.	The rate of change of angular velocity is named by?					
	a) Displacement b) Angular Acceleration			ation		
	c) Angular Distance	e d) f	None			
94.	If m = mass of a bo	dy and $v = veloci$	ity then the kine	etic energy of body is?		
	a) my 2	b) 1 2	c) 2 mu ²	d)		

a) mv^2 b) $\frac{1}{2}mv^2$ c) $2mv^2$ d) mv

95.	The force of attr	action betwe	en nuclear and electron	is?
	a) Centripetal		b) Centrifugal	
	c) Torque		d) Impulsive force	
96.	If f = frequency f	then the time	period (t _p) is?	
	a) f ²	b) 1/f	c) f	d) None
97.	One kilogram-m	eter = Jo	ules?	
	a) 9	b) 9.81	c) 8.9	d) 8.91
98.	The time period	of a second's	s pendulum is?	
	a) 1 sec	b) 2 sec	c) 3 sec	d) 4 sec
99.	One horse powe	er = kgfn	n/sec?	
	a) 70	b) 73	c) 74	d) 75

100. If a body falls freely from a height "h" then the velocity to reach the ground?

a) √ <i>2gh</i>	b) √gh	c) √3gh	d) 2gh

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