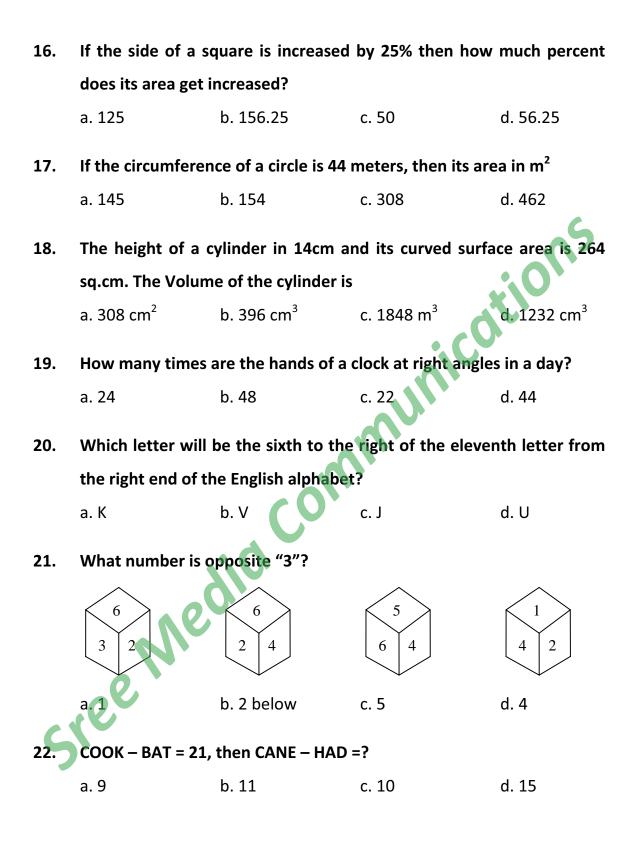
RRB Assistant Loco Pilot and Technician Model Paper - I

General knowledge, Reasoning, Arithmetic

1.	A lunar eclipse occurs when?							
	a. The moon come	es between t	he sun and the earth.	5				
	b. The earth comes between the Sun and the moon.							
	c. The Sun comes	c. The Sun comes between the earth and the moon.						
	d. None.		ico					
2.	Who introduced fa	mous 20 po	int input-output program	nme?				
	a. Rajiv Gandhi		b. Indira Gandhi					
	c. P.V.Narasimha I	Rao	d. None					
3.	The Nanvakkal is fa	amous in?						
	a. Sericulture		b. Piggory					
	c. Poultry	; 0	d. None					
4.	How many bones a	are in the ad	ult human skeleton?					
	a. 205	b. 206	c. 207	d. 212				
5.	The Agricultural U	niversity is it	?					
5	a. Coimbatore	b. Salem	c. Sivaganga	d. None				
6.	In Tamil Nadu Bird	Sanctuary is	s situated at?					
	a. Mudumalai		b. Vedanthangal					
	c. Mundanthurai		d. None					

7.	The famous lion reserve is situated at?						
	a. Gir sanctuary		b. Hazaribagh Park				
	c. Corbett Park		d. No	ne			
8.	Who out of the fo	ollowing had a	abolis	hed Zajiya on Hind	dus?		
	a. Aurangzeb	b. Jahangir		c. Shah Jahan	d. Akbar		
9.	Sound cannot tra	vel through?			2		
	a. Vacuum	b. Hydrogen	ı gas	c. Water	d. Steel		
10.	Which planet is t	he nearest to	the Su	un?			
	a. Earth	b. Venus		c. Pluto	d. Mercury		
11.	Which of the follo	owing disease	es is caused by virus?				
	a. Pellagra	b. Small-pox	"	c. Filariasis	d. None		
12.	The density of wa	ater is higher	at?				
	a. 4° C	b. 0°C		c4°C	d273°C		
13.	Which one of t	he following	regu	lates & co-ordin	ates the group		
	movement of ske	letal muscles	?				
	a. Cerebrum	b. Cerebellu	m	c. Spinal cord	d. Medulla		
14.	Chemical equatio	ons can be wri	itten o	on the basis of			
	a. Law of constant	t proportion	b. Law of multiple proportions				
	c. Law of reciproc	al proportion	n d. None				
15.	Trimuthis festival	l is annually h	eld at				
	a. Tanjore		b. Tir	urayar			
	c. Tiruavares		d. Kumbakonam				



23. Pointing out to a person a man said to a woman. "His mother is the only daughter of your father". How as the woman related to the person?

a. Aunt b. Brother c. Cousin d. Mother

Direction (24-27): Read the following information and Answer the questions. Five persons namely P, Q, X, Y and Z are sitting in a park. 'P' is the mother of 'X' who is wife of 'Z'. 'Y' is brother of 'P' and 'Q' is the husband of 'P'.

nicor 24. How is P related to Z? a. Mother b. Aunt c. Mother-in-law d. None 25. How is Y related to Q? Brother-in-law a. Brother d. Uncle c. Cousin How is X related to Q 26. a. Daughter b. Niece c. Aunt d. Mother How is Q related to Z? 27. a. Brother-in-law b. Father c. Father-in-law d. None In 12 hours the hands of the clock will coincide and at 90° for how 28. many times? a. 22 b. 11 c. 32 d. 33

29.	15, 30, 60, 105, _	?					
	a. 160	b. 175	c. 150	d. 165			
30.	Find out wrong N	umber?					
	16, 23, 26, 64, 10	0, 144					
	a. 36	b. 16	c. 25	d. 144			
				5			
TECH	INICAL APTITUDE			.01			
31.	Who invented the	e law of gravitatior	nal force?				
	a. Einstein	b. C.V. Raman	c. Newton	d. None			
32.	Energy generated	l by turbine blade i	~				
52.	a. P.E.	b. P.E. + K .E	с. К.Е	d. None			
	d. F.L.	D. F.L. T N.L	C. R.E	u. None			
33.	What is the purpo	ose of tempering fo	or hardened steel?				
	a. To harden the steel b. To soften the steel						
	c. To change the s	structure	d. To strengthen the steel				
34.	Leg vice is sued fo	or operation	s?				
	a. Smithy	b. Forging	c. Casting	d. Welding			
35.	Rainbow has ellip	otical shape due to	?				
	a. Reflection	b. Refraction	c. Rare Fraction	d. None			
C							
36.	When bullet is fir	ed, which law is ap	oplied to riffle?				
	a. Newton's 111r	d law	b. Law of conserv	ation			
	c. 156 law of ther	modynamics	d. All of the above	2			

37.	A motorist moving in a straight direction he contains energy?					
	a. Potentia	l only	b. Kinetic + I	Potential Energy		
	c. Kinetic e	nergy only	d. None			
38.	Sound trav	el is faster in?				
	a. Air	b. Vacuum	c. Cast Steel	d. Aluminum		
39.	Pilot tube i	is used to measure	?	ns		
	a. Velocity	of a gas	b. Pressure of fluid			
	c. Quantify	of flow	d. Velocity of fluid	in open Channels		
40.	Air conditi	oning means?		C.		
	a. To contr	ol the condition of	air			
	b. To contr	ol the movement c	of air			
	c. To maint	ain pleasingness				
	d. All of the	e above	0''			
41.	In motor v	ehicles which type	of mirror used?			
	a. Concave	XIV	b. Convex			
	c. Both a a	nd b	d. Plane			
42.	Why coola	nt is used in lathes	?			
	a. To increa	ase the cutting acti	on b. To decrea	ise heat loss		
C	c. To remo	ve chips	d. All of the	above		
43.	In simple in	ndexing the crank	movement is given b	y?		
	a. 24/N	b. 24	4/N+N/40			
	c. 40/N	d. 40	$D/N = n_1/N_1 \pm n_2/N_2$			

44.	Usually shafts are made wit	h?
	a. Cast iron	b. H.S.S.
	c. M. S	d. All of the above
45.	Angle plates are used in	conjunction with a when holding
	surface of the work piece sh	ould be kept horizontal?
	a. Chuck	b. Face plate
	c. Mandrel	d. Rests
46.	Number of taps used for ma	king a complete thread in the hole is?
	a. Single tap only	b. Two taps
	c. Three taps	d. None
47.	Cutting edges of the reamer	s are called?
	a. Lands	b. Flutes
	c. Heal	d. All of the above
48.	Slip gauges are sometimes u	sed for accurate setting of the?
	a. Tail stock	b. Carriage
	c. Tool part	d. All of the above
49.	Thermal stress in a bar is dir	ectly proportional to?
	a. Its cross sectional area	b. It's Volume
C	c. Change in temperature	d. None
50.	Which type of radiation is lil	berating form the sun?
	a. Fission	b. Fusion
	c. Both A and B	d. None

51.	Bar is measurement for?						
	a. Velocity	b. Temperature					
	c. Pressure	d. All of the above					
52.	Mechanical efficiency means?						
	a. Input/ Output	b. n stage/ n blade					
	c. Work done/Output	d. Output/Input	6				
53.	By combustion of fuel in cyline	der chemical energy co	onverted into?				
	a. Mechanical energy	b. Thermal Energy	XIV				
	c. Potential energy	d. Kinetic energy	0.				
54.	Which type of refrigent is used	d in refrigerator?					
	a. Ammonia b. Water	c. Freon	d. None				
55.	20kgf.m. = joules	2					
55.	20kgf.m. = joules a. 4 b. 2	с. 3	d. None				
55. 56.		c. 3	d. None				
	a. 4 b. 2	c. 3	d. None				
	a. 4 b. 2 Ladies voice is large than men	c. 3 's, why?	d. None				
	a. 4 b. 2 Ladies voice is large than men a. Low pitch	c. 3 's, why? b. Low amplitude d. High amplitude					
56.	a. 4 b. 2 Ladies voice is large than men a. Low pitch c. High pitch	c. 3 's, why? b. Low amplitude d. High amplitude					
56.	 a. 4 b. 2 Ladies voice is large than men a. Low pitch c. High pitch For medium heads which type 	c. 3 's, why? b. Low amplitude d. High amplitude of turbine is suitable?					
56.	 a. 4 b. 2 Ladies voice is large than men a. Low pitch c. High pitch For medium heads which type a. Kaplan turbine 	c. 3 's, why? b. Low amplitude d. High amplitude of turbine is suitable b. Impulse turbine					
56. 57.	 a. 4 b. 2 Ladies voice is large than men a. Low pitch c. High pitch For medium heads which type a. Kaplan turbine d. Francis turbine 	c. 3 's, why? b. Low amplitude d. High amplitude of turbine is suitable b. Impulse turbine d. None					

59.	What is the unit of strain?						
	a. N/mm ²	b. N/m ²	c. No unites	d. None			
60.	When two forces	have equal magn	itudes and angle	between is 90°			
	then what is the r	esultant?					
	a. P ²	b. 2√p	c. √2 P	d. None			
61.	The melting point	of the filler mater	ial in brazing shou	ld be above?			
	a. 420°	b. 600°	c. 800°C	d. 1000°C			
62.	Inconel is an alloy	of?	ć				
	a. Nickel-Chromiu	m iron	b. Copper zinc-iro	'n			
	c. Copper tin – iro	n	d. None				
63.	Primary is needed	l in?	av.				
	a. Reciprocating p	ump	b. Gear pump				
	c. Centrifugal pur	ip O	d. Diaphragm pur	np			
64.	Weld spatter defe	ect in welding is ge	nerally the result o	of?			
	a. Using tool high	welding current					
	b. Using tool low v	velding current					
	c. Both a and b		d. None				
65.	A tool used for	removing broke n	bolts and studs	from a hole is			
C	known as?						
7	a. Screw driver	b. Punch	c. Exy-put	d. Emry rod			
66.	Which of the follo	owing used as the v	vire for heating an	element?			
	a. Invar	b. Niche chrome	c. Silver	d. None			

67. Example for semisolid lubricant is?

a. Graphite powder b. Greases c. Mineral oil d. All

68. For the same compression ratio the thermal efficiency of Otto, diesel and dual combustion cycle will be in the order?

tions

a. Otto, Dual, Diesel b. Otto, Diesel, Dual

c. A and b d. None

69. Cable should be connected with appliances so that?

a. It has complete contract with other metallic part.

- b. It has partial contact with other metallic part.
- c. It doesn't have any contact with other metallic part.
- d. It has contact with more than one metallic part.

70. The solder used for soldering battery cable is made of?

a. Tin and leadb. Copper and tinc. Lead ad aluminumd. Copper and Zinc

71. While soldering wire on a terminal solder should solidify rapidly?

- a. To avoid cracking of terminals.
- b. To avoid melting of terminals.
- c. To avoid displacement of components being soldered.
- d. To avoid over heating of other components.

Correct sequence of current flow in simple electric circuit is?

- a. Load, switch, battery b. Battery, switch load
- c. Load, battery, switch d. Switch, load, battery

73. In an open circuit the resistance is?

a. Very highb. Very lowc. Infinited. No resistance

74. In a closed electrical circuit the current is?

- a. Inversely proportional to voltage.
- b. Directly proportional to resistance.
- c. Inversely proportional to voltage and directly.

d. Directly proportional to voltage and inversely proportional to resistance.

75. A cell is device consisting of?

a. One electrode b. Tow electrodes

c. Three electrodes d . Four electrodes

76. Vent holes are provided in wet cells?

- a. To pour electrode.
- b. To allow gases to escape during charging only.
- c. To allow gases to escapees during charging and discharging.
- d. To allow gases to escapes during discharging only.

77. Identify the secondary cell from the following?

a. Silver-oxide cellb. Carbon-zinc cellc. Lead acid celld. Lithium cell

78. Lead acid battery is?

- a. An electro-mechanical device b. An electrochemical device
- c. An electrical device
- d. A chemical device

79.	While discharging the battery converts?							
	a. Mechanical energy into elec	trical energy.						
	b. Electrical energy into chemical energy.							
	c. Chemical energy into mecha	inical energy.						
	d. Chemical energy into electri	ical energy.						
80.	The level of the electrolyte in	each cell above plates should be?						
	a. 1/8" to 1/4"	b.1/4" to 3/8"						
	c. 3/8" to 9/16"	d. 7/8" to 1"						
81.	The electrolyte used in lead a	cid batter is?						
	a. Nitric acid	b. Citric acid						
	c. Sulfuric acid	d. Hydrochloric acid						
82.	The number of turns in prima	ry winding are?						
02.	a. 100-200 turns	b. 200 – 300 turns						
	c. 200-400 turns	d. 400-500 turns						
	c. 200-400 turns	a. 400-500 turns						
83.	The distributor rotates simult	aneously along with the?						
	a. Water pump	b. Oil pump						
	c. Fuel pump	d. Vacuum pump						
84.	The spark plug is fitted on?							
	a. Cylinder	b. Cylinder Head						
	c. Crank case	d. Rocker cover						
85.	Distributer shaft is supported	by?						
	a. Ball bearing	b. Shell bearing						
	c. Brush bearing	d. Needle bearing						

86.	Distributor cap is made of?						
	a. Bakelite	b. Fiber	c. Plastic	d. P.V.C.			
87.	The centrifugal a	dvance mec	hanism advances the	timing when fly			
	weights?			6			
	a. Fly outward		b. Contract inward	~~~~			
	c. Remain constan	t	d. Move upward	×'0'			
88.	The dynamo used	in automobi	les is of?	3			
	a. Single pole	b. Two pole	e c. Three pole	d. Five pole			
89.	Dynamo brushes a	are made of?					
	a. Copper	b. Brass	c. Carbon	d. Aluminium			
90.	In charging system	n the regulat	or acts as?				
	a. An automatic co	ontrol	b. An electronic contro	I			
	c. Manual control	0;	d. A semi automatic co	ntrol			
91.	When the dynam	o voltage is	s more than the batt	ery voltage, the			
	voltage flows to tl	ne	?				
	a. Field winding		b. Shunt winding				
	c. Series winding		d. Armature winding				
92.	The oil pumps are	generally dr	iven by?				
	a. Camshaft		b. Rocker shaft				
	c. Crank shaft		d. Damper pulley				

93.	The symbol of P-N diode?							
	a. A C	b. A C	c. A C	d. A C				
94.	The output of rec	tifier constrains?						
	a. AC	b. DC	c. Both a & b	d. None				
95.	Transistor is a?			.:0				
	a. Current contro	lled device	b. Voltage contr	olled device				
	c. Power controlle	ed device	d. All of the abov	ve				
96.	Which of the follo	owing circuit can o	operate class for au	udio output?				
	a. Emitter	b. Push pull	c. Cascade	d. None				
97.	Which of the foll	owing Semi-condu	uctor is widely used	1?				
	a. Germanium	b. Silicon	c. Gallium	d. None				
98.	In which oscillato	or series combinat	ions of capacitors a	are obtained?				
	a. Cali Pitts	b. H	lardly					
	c. Crystal	d. V	Veighing bridge					
99.	The most widely	used method of b	iasing is?					
	a. Fixed bias	b. B	asic to collector bia	IS				
5	c. Self bias	d. N	lone					
100.	Memory is measu	ured in?						
	a. Bytes	b. Gytes	c. Mytes	d. None				

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