PREVIOUS PAPER

Assistant Loco Pilot KOLKATA Based on Memory

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	В	Based on	Memory	y		
1.	Manometer is us	sed to measure-				
	1) Pressure	2) Gravity	3) Humidity	4) Volume		
2.	Calorie is the un	it of-				
	1) Temperature	2) Heat	3) Power	4) Energy		
3.	A stratight rod p	artially immersed	in water seems be	ent. Its reason is-		
	1) Refraction					
	2) Reflection					
	3) Different temp	erature of water lev	rels			
	4) High pressure	of water at the botto	om			
4.	Which law states	s that a liquid insid	de a closed system	exerts equal pressure		
	in all directions?					
	1) Boyle's law		2) Pascal's law			
	3) Graham's law		4) Gay - Lussac's	law		
5.	An electro-magn	net is made of-				
	1) Soft iron	2) Copper	3) Hard Steel	4) Zinc		
6.	Only two eleme	nts are in liquid st	ate at room tempe	rature. They are		
	1) Bromine, Iodir	ne	2) Hafnium, Mero	Hafnium, Mercury		
	3) Bromine, Merc	cury	4) None of these			
7.	A stone was dropped freely in a river flowing down a bridge. The stone					
	takes 2 seconds i	n touching the wa	ter surface. The h	eight of the bridge is-		
	1) 9.8 m	2) 19.6 m	3) 39.2 m	4) Data inadequate		
8.	1 micron is equa	l to-				
	1) 0.1 mm	2) 0.01 mm	3) 0.001 mm	4) 0.0001 mm		

9.	The most abundant gas found in earth's atmosphere is-					
	1) Oxygen		2) Carbon dioxide	e		
	3) Hydrogen		4) None of these			
10.	The Chemical fo	ormula of Caustic	Soda is-			
	1) Na(OH) ₂	2) Na ₂ CO ₃	3) NaOH	4) NaCl		
11.	Air cooler will b	e most effective in	-			
	1) Kolkata	2) Guwahati	3) Puri	4) New Delhi		
12.	A certain distan	ce was covered at	a certain speed. If	half of the distance is		
	covered in twice	time, the ratio be	tween new speed a	ween new speed and original speed is-		
	1) 1:2	2) 1:4	3) 2 : 1	4) 4:1		
13.	The number of e	electrons in Na ⁺ is	-			
	1) 11	2) 10	3) 12	4) 13		
14.	The most electro	negative element	in the following is	-		
	1) F	2) C <i>l</i>	3) Br	4) I		
15.	Rh factor is rela	ted to-				
	1) Blood Transfu	sion	2) Atmospheric P	ressure		
	3) Blood Pressure		4) Space			
16.	A force of 50N a	cts on a body and	moves the body o	on a straight path to a		
		tres. Find the wor	k done if the force	acts at an angle of 60		
	with horizontal.					
	1) 100J	2) 300J	,	4) 200J		
17.	_			time period will be-		
	1) Twice	2) Eight times	,	4) None of these		
18.		_		reaction but does not		
		inge in itself, is cal		A) T !:		
10	1) Electrolyte	2) Catalyst	,	•		
19.		_	_	s of a gas is inversely		
		the pressure. It is				
	1) Charles' Law 2) Avagadra's La	•••	2) Boyle's Law 4) Dalton's Law			
20	3) Avogadro's La		4) Dalton's Law	accurred by		
20.			ait/ implement is measured by-3) Ohm-meter 4) None of these			
1) Meggar 2) Ammeter 3) Ohm-meter 4) None of						

21.	Solenoid is a-					
	1) Shaft		2) Hollow tube			
	3) Tube on which	n wire is coiled	4) Cell			
22.	At a uniform ac	cleration which of	the motion equation	ons is correct-		
	1) $v = u - at$		2) $v = u + at$			
	3) $s = ut - \frac{1}{2} at^2$	2	4) u = v + at			
23.	A body starts fr	om rest at an acco	eleration of 2m/sec*2. The distance cov-			
	ered by the body	y in 2 seconds is-				
	1) 2 m	2) 8 m	3) 4 m	4) 1 m		
24.	The c.g.s. unit o	f density is-				
	$1) \text{ gm/cm}^3$	2) gm/cm ²	3) gm/cm	4) kg/cm^3		
25.	When a body is	partially of fully i	mmersed in a liqui	d it experiences a loss		
	in its weight tha	t is equal to the wo	eight of liquid disp	laced by its immersed		
	part. This princ	iple is of-				
	1) Boyle	2) Pascal	3) Terricelli	4) Archimedes		
26.	The unit of forc	_				
	1) Newton	2) Dyne	3) ms^{-2}	4) K		
27.	Humidity in the	atmosphere is me	asured by-			
	1) Hydrometer	2) Hygrometer	3) Manometer	4) Pyrometer		
28.	Density of pure	water at 4°C is-				
	1) 100 kg./m^2	2) 1000 kg/m^3	3) 1000 gm/cm^3	4) 1000 gm/cm^2		
29.	Momentum, ma	ss and velocity are	e related as-			
		= mass/veloc				
		$=$ mass \times vel				
		$=$ mass \times mo				
	4) Mass	= momentum	$n \times velocity$			
30.	1 second is	part of a mean sola	ar day.			
	1) $\frac{1}{84600}$	2) $\frac{1}{85000}$	3) $\frac{1}{86400}$	4) $\frac{1}{80000}$		
31.	The unit of You	ng's Modulus of E	lasticity in MKS sy	stem is-		
	1) Nm ⁻²	2) N/cm ²	3) Dynes/cm	4) Dynes/cm ²		

32.	The property of a metal which reduces its strength when it is subjected to					
	reversal of stress is called-					
	1) Fatigue	2) Creep	3) Resilience	4) Elasticity		
33.	Melting point of	f cast iron (in °C)	is in the range of-			
	1) 1150-1300	2) 1800-1900	3) 1450-1600	4) 600-700		
34.	The buckling lo	oads depend upon-				
	1) slenderness ra	atio	2) cross-sectiona	al area		
	3) modulus of el	lasticity	4) All of the above			
35.	'Anvil' is used	in the work of-				
	1) Forging	2) Welding	3) Fitting	4) Machining		
36.	In an electrical	circuit resistance i	s 55 Ohms and cu	rrent 4 amperes. What		
	is voltage?					
	1) 220V	2) 13.75V	3) 0	4) 110V		
37.	Bell metal cont	ains Cu and				
	1) A <i>l</i>	2) Sn	3) Zn	4) Ni		
38.	_			machine tool is called-		
20	1) Lathe	2) Shaper		4) Milling		
39.		ost elastic material		A) G: 1		
40	1) Rubber	,	,	4) Steel		
40.		ollowing has the hig				
41	1) Steel	2) Copper	3) Aluminium	4) Rubber		
41.		r works on the bas				
	•	of e.m.induction				
	3) Lenz's law	/ 1	4) Newton's law	,		
42.	When $x = 2$, the	e value of $\left(0.5 - \frac{1}{x}\right)$	-) = ?			
	1) 1.5	2) -1.5	3) 0.5	4) 0		
43.	What number l	nas to be added to	the terms of 3:5 t	to make the ratio 5:6?		
	1) 13	2) 7	3) 12	4) 6		
44.	Find the value	of $\left\{8-2\times\frac{8-2}{8+2}\right\}$	(5)			
	1) 3	2) 2	3) 6	4) 4		

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45.	The sum of three consecutive numbers is 18; find the sum of the next three consecutive numbers?				
			2) 2=		
	1) 24	2) 30	3) 27	4) 35	
46.	$\log_5 125 = x; x$	= ?			
	1) 25	2) 3	3) 2	4) 5	
47.	Find the value	of x in $(2^2) \frac{1}{3} (2x)$	$+\frac{1}{2}\bigg)=2^{-5}$		
	1) -4	2) +4	3) -2	4) +2	
48.	A two digit num	nber is 7 times the	sum of its two dig	its. The number that is	
				iginal number. What is	
	the number?				
	1) 52	2) 42	3) 62	4) 27	
49.	A sum of money	v becomes Rs. 20,9	25 in 2 years and l	Rs. 24,412.50 in 5 years.	
		f interest and the s		•	
	1) 8%, Rs.17,560 2) 6.25%, Rs.18,600				
	3) 7%, Rs.18,00		4) 6.75%, Rs.17		
50.	Find the sum for	na ation which had	comes $\frac{1}{2}$ when denominator is increased		
30.	rina me sum n	raction which beco	$\frac{1}{2}$ when den	ommator is increased	
30.					
30.	by 4; the same	fraction becomes -	$\frac{1}{8}$ when the nume	erator is reduced by 5.	
	by 4; the same $1) \frac{3}{5}$	fraction becomes - $\frac{5}{8}$	$\frac{1}{8}$ when the nume		
51.	by 4; the same $1) \frac{3}{5}$ Lux is the unit	fraction becomes - 2) $\frac{5}{8}$ of	$\frac{1}{8}$ when the nume $3) \frac{6}{8}$	erator is reduced by 5.	
	by 4; the same $1) \frac{3}{5}$ Lux is the unit 1) magnetic flux	fraction becomes - $2) \frac{5}{8}$ of	when the nume $3) \frac{6}{8}$ 2) frequency	erator is reduced by 5. 4) $\frac{8}{12}$	
51.	by 4; the same 1) $\frac{3}{5}$ Lux is the unit 1) magnetic flux 3) sound intensi	fraction becomes - $2) \frac{5}{8}$ of ty	when the nume 3) $\frac{6}{8}$ 2) frequency 4) level of illum	erator is reduced by 5. 4) $\frac{8}{12}$	
	by 4; the same 1) $\frac{3}{5}$ Lux is the unit 1) magnetic flux 3) sound intensi MISTAKE = 9'	fraction becomes - $2) \frac{5}{8}$ of (x) ty $765412, NAKED = $	when the nume 3) $\frac{6}{8}$ 2) frequency 4) level of illum 84123 then STAI	erator is reduced by 5. 4) $\frac{8}{12}$ An ination N = ?	
51. 52.	by 4; the same 1) $\frac{3}{5}$ Lux is the unit 1) magnetic flux 3) sound intensi MISTAKE = 9' 1) 65478	fraction becomes - 2) $\frac{5}{8}$ of ty 765412, NAKED = 2) 98175	when the nume 3) $\frac{6}{8}$ 2) frequency 4) level of illum 84123 then STAI 3) 89483	erator is reduced by 5. 4) $\frac{8}{12}$ An ination N = ?	
51.	by 4; the same 1) $\frac{3}{5}$ Lux is the unit 1) magnetic flux 3) sound intensi MISTAKE = 9' 1) 65478 GAMBLE = IC	fraction becomes - $2) \frac{5}{8}$ of 4 ty $765412, NAKED = 2) 98175$ CODNG; FLOWER	when the nume 3) $\frac{6}{8}$ 2) frequency 4) level of illum 84123 then STAI 3) 89483 R = ?	erator is reduced by 5. 4) $\frac{8}{12}$ initiation N = ? 4) 68194	
51.52.53.	by 4; the same 1) $\frac{3}{5}$ Lux is the unit 1) magnetic flux 3) sound intensi MISTAKE = 9' 1) 65478 GAMBLE = IC 1) GMPXFS	fraction becomes - 2) $\frac{5}{8}$ of ty 765412, NAKED = 2) 98175 CODNG; FLOWED 2) HNQYGT	when the nume 3) $\frac{6}{8}$ 2) frequency 4) level of illum 84123 then STAI 3) 89483 R = ? 3) GMPVDS	erator is reduced by 5. 4) $\frac{8}{12}$ initiation N = ? 4) 68194 4) None of these	
51. 52.	by 4; the same 1) $\frac{3}{5}$ Lux is the unit 1) magnetic flux 3) sound intensi MISTAKE = 9' 1) 65478 GAMBLE = IC 1) GMPXFS Ram started fr	fraction becomes - 2) \frac{5}{8} of ty 765412, NAKED = 2) 98175 CODNG; FLOWED 2) HNQYGT from his house and	when the nume 3) $\frac{6}{8}$ 2) frequency 4) level of illum 84123 then STAI 3) 89483 R = ? 3) GMPVDS walked 2km North	erator is reduced by 5. 4) $\frac{8}{12}$ initiation N = ? 4) 68194	
51.52.53.	by 4; the same 1) $\frac{3}{5}$ Lux is the unit 1) magnetic flux 3) sound intensi MISTAKE = 9' 1) 65478 GAMBLE = IC 1) GMPXFS Ram started fr	fraction becomes - 2) $\frac{5}{8}$ of ty 765412, NAKED = 2) 98175 CODNG; FLOWED 2) HNQYGT	when the nume 3) $\frac{6}{8}$ 2) frequency 4) level of illum 84123 then STAI 3) 89483 R = ? 3) GMPVDS walked 2km North	frator is reduced by 5. 4) $\frac{8}{12}$ dination N = ? 4) 68194 4) None of these th, then 3 km west and	
51.52.53.	by 4; the same 1) $\frac{3}{5}$ Lux is the unit 1) magnetic flux 3) sound intensi MISTAKE = 9' 1) 65478 GAMBLE = IC 1) GMPXFS Ram started fr finally 6 km sou 1) 5 km Arrange the fe	fraction becomes - 2) $\frac{5}{8}$ of ty 765412, NAKED = 2) 98175 CODNG; FLOWED 2) HNQYGT com his house and auth. How far is he 2) 11 km	2) frequency 4) level of illum 84123 then STAI 3) 89483 R = ? 3) GMPVDS walked 2km Nord from his house? 3) 4 km	frator is reduced by 5. 4) $\frac{8}{12}$ dination N = ? 4) 68194 4) None of these th, then 3 km west and	
51.52.53.54.	by 4; the same 1) $\frac{3}{5}$ Lux is the unit 1) magnetic flux 3) sound intensi MISTAKE = 9' 1) 65478 GAMBLE = IC 1) GMPXFS Ram started fr finally 6 km sou 1) 5 km Arrange the fedictionary?	fraction becomes - 2) $\frac{5}{8}$ of ty 765412, NAKED = 2) 98175 CODNG; FLOWED 2) HNQYGT com his house and auth. How far is he 2) 11 km	2) frequency 4) level of illum 84123 then STAI 3) 89483 R = ? 3) GMPVDS walked 2km Nort from his house? 3) 4 km the order they	frator is reduced by 5. 4) $\frac{8}{12}$ mination N = ? 4) 68194 4) None of these th, then 3 km west and 4) 7 km appear in an English	
51.52.53.54.	by 4; the same 1) $\frac{3}{5}$ Lux is the unit 1) magnetic flux 3) sound intensi MISTAKE = 9' 1) 65478 GAMBLE = IC 1) GMPXFS Ram started fr finally 6 km sou 1) 5 km Arrange the fedictionary? 1. Literature	fraction becomes - 2) $\frac{5}{8}$ of ty 765412, NAKED = 2) 98175 CODNG; FLOWED 2) HNQYGT com his house and uth. How far is he 2) 11 km ollowing words in	2) frequency 4) level of illum 84123 then STAI 3) 89483 R = ? 3) GMPVDS walked 2km Nort from his house? 3) 4 km the order they 3. Liberty	frator is reduced by 5. 4) $\frac{8}{12}$ mination N = ? 4) 68194 4) None of these th, then 3 km west and 4) 7 km appear in an English 4. Library	

						
56.	Insert the missing numbers-					
	2	6	?	?		
	54	18	81	27		
	1) 3	and 9		2) 5 and 18	3) 6 and 12	4) 3 and 21
57.	Whi	ch tool	l is us	ed for chipping?		
	1. Cl	nisel		2. Drill	3. Pliers	4. Hammer
58.	"PIC	CO" m	eans-			
	1) 10)-15		2) 10 ⁻⁹	3) 10 ⁻¹²	4) 10 ⁻⁶
59.	1 na	nomet	re = ?			
	1) 10	$^{-7}$ m		2) 10 ⁻⁸ m	3) 10 ⁻⁹ m	4) 10 ⁻⁶ m
60.	The	relation	1 betw	een wave velocity (V	V), frequency (f) and	l wave - length (λ) is-
	1) V	$= f\lambda$		2) $\lambda = Vf$	3) $f = \frac{\lambda}{V}$	4) $f = \lambda V$
61.		X = ?				
	1) 17	70°C		2) -173°C	3) -273°C	4) 273°C
62.	At 1	.45 PM	I, the	hour hand will be	in the direction-	
	1. No	orth - v	vest	2. South - east	3. West	4. North - east
63.	Hous	se, bedi	room a	and bathroom are bo	est represented by v	which venn diagram?
	1)					13
	1)() 2) () ()	3)	4) (())
64.	If th	e 26 th	Augu	st in a month is F	riday, then the nu	imber of Tuesdays in
	that	month	will l	be-		
	1) 4			2) 5	3) 6	4) None of these
65.	If the	e diamo	eter of	a sphere is 6 meters	s, its hemisphere wi	ll have a volume of-
	1) 36	δ π		2) 72π	3) 18π	4) None of these
66.	Wha	ıt part	of an	hour elases from 4	4.56PM to 5.32 PM	! ?
	1) 1			3	3	1
	1) $\frac{1}{4}$	_		$2)\frac{3}{4}$	$3)\frac{3}{5}$	4) $\frac{1}{2}$
67.	"Nev	wton's	Disk'	when rotated rap	idly appears	
	1) Ye	ellow		2) White	3) Black	4) Green

68.

Red Hematite is the ore of

	1) Copper	2) Zinc		3) Aluminium	n	4) Iron
69.	Specific Latent l	neat of vapou	urization of water is-			
	1) 540 calories/ gm		2) 80 calories/ gm			
	3) 540 k.calories/	$^{\prime}\mathrm{gm}^2$	4) 80	k.calories/ gn	n^2	
70.	What percent of CO ² by volu			ume constitutes the atmosphere?		
	1) 1% 2) 0.	03%	3. 0.1	%	4) 2%	
71.	Which Gupta ruler was crowned with the title of Vikramaditya?					ramaditya?
	1) Chandragupta-	·I	2) Ch	nandragupta-II		
	3) Skundgupta		4) Sa	mudragupta		
72.	2. The father of Rabindrabhanath Tagore was-					
	1) Ratindranath		2) Dy	warkanath		
	3) Avanindranath		4) De	evendranath		
73.	Which of the following filmstars was lovingly called "Dadamuni"?					'Dadamuni''?
	1) Sanjeev Kuma	r	2) As	it sen		
	3) Ashok Kumar		4) Ki	shore Kumar		
74.	The unit to measure the speed of ships is-					
	1) mile	2) kmph		3) knot		4) mph
<i>75.</i>	National Defenc	e Academy is	situa	ted in-		
	1) Dehradun		2) Ne	New Delhi		
	3) Kharagwasala		4) Na	nsik		
76.	Dhanpat Rai is j	popularly kn	own a	S-		
	1. Nirala	2. Hari Aud	lh	3. Bachchan		4. Premchand
77.	The Khajuraho	•	situate	d in-		
	1) Madya pradesl	1		2) Uttar Pradesh		
	3) Rajasthan			4) Bihar		
78.	The famous "Ga	nteway of Ind	lia'' is			
	1) Mumbai	2) Agra		3) New Delh	i	4) Kolkata
79.	Which has pink	colour ?			_	
	1) India Gate		2) Victoria Memorial			
	3) Hawa Mahal			4) Lotus Tem	ple	
80.	Hinyana and Ma	ahayana are	two se	cts of		

	1) Sikhism	2) Hinduism	3) Buddhism	4) Jainism
81.	Status of Liberty	is situated in-		
	1) Spain	2) UK	3) US	4) Italy
82.	Who is called Bh	aratendu?		
	1) Rabindranath		2) Premchand	
	3) Hrishchandra		4) Bachchan	
83.	Euro is the curre	ency of		
	1) Germany	2) New Zealand	3) Canada	4) Mexico
84.	NaCl is the chem	ical formula of-		
	1) Urea	2) Salt	3) Baking soda	4) Lime
85.	Seismology is the	e scientific study of	•	
	1) Earthquake		2) Weather codition	ons
	3) Volcanoes		4) Rocks	
86.	Who was the last	t viceroy of India?		
	1) C.Rajgopalacha	ari	2) Lord Wavell	
	3) Lord Canning		4) Mountbatten	
87.	Haldiya oil refin	ery is situated in-		
	1) Bihar	2) Jharkand	3) Orissa	4) W.Bengal
88.	Which of the foll	owing cities is also	called Prayag?	
	1) Lucknow	2) Allahabad	3) Patna	4) Nasik
		ANSW	ERS	
1-1; 2	2-2; 3-1; 4-2; 5-1;	6-3; 7-2; 8-3; 9-1;	10-3; 11-4; 12-2; 1	3-2; 14-1; 15-1; 16-1;
17-3;	18-2; 19-2; 20-3;	21-3; 22-2; 23-3; 2	24-1; 25-4; 26-2; 2	7-2; 28-2; 29-2; 30-3;
31- 1	; 32-1; 33-3; 34-4;	35-2; 36-2; 37-2;	38-1; 39-4; 40-1; 4	1-1; 42-4; 43-2; 44-2;
45-3;	46-2; 47-1; 48-2;	49-2; 50-3; 51-4; 5	52-1; 53-2; 54-1; 5	5-2; 56-1; 57-1; 58-3;
59-3;	60-1; 61-2; 62-4;	63-3; 64-2; 65-3; 6	66-3; 67-2; 68-4; 6	9-1; 70-2; 71-2; 72-4;
73-3;	74-3; 75-3; 76-4;	77-1; 78-1; 79-3; 8	80-3; 81-3; 82-3; 8	3-1; 84-2; 85-1; 86-1;
87-4;	88-2.			