PREVIOUS PAPER

Assistant Loco Pilot KOLKATA Based on Memory

KULKAIA						
Based on Memory						
1.	Manometer is us	sed to measure-	1,1	~		
	1) Pressure	2) Gravity	3) Humidity	4) Volume		
2.	Calorie is the un	nit of-	Co			
	1) Temperature	2) Heat	3) Power	4) Energy		
3.	A stratight rod p	A stratight rod partially immersed in water seems bent. Its reason is-				
	1) Refraction	70.				
	2) Reflection					
	3) Different temp	perature of water le	vels			
	4) High pressure	of water at the bott	tom			
4.	Which law state	s that a liquid insi	de a closed systen	n exerts equal pressure		
	in all directions?	?				
	1) Boyle's law		2) Pascal's law	0.0		
	3) Graham's law		4) Gay - Lussac'	's law		
5.	An electro-mag	net is made of-	X			
	1) Soft iron	2) Copper	3) Hard Steel	4) Zinc		
6.	Only two eleme	ents are in liquid s	tate at room temp	erature. They are		
	1) Bromine, Iodii	ne 1	2) Hafnium, Men	rcury		
	3) Bromine, Mero	cury	4) None of these	,		
7.	A stone was dro	opped freely in a	river flowing dow	yn a bridge. The stone		
	takes 2 seconds	in touching the wa	ater surface. The l	neight of the bridge is-		
	1) 9.8 m	2) 19.6 m	3) 39.2 m	4) Data inadequate		
8.	1 micron is equa	al to-				
1	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			
	3) Hydrogen		4) None of these	X		
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	-	2.		
	1) Kolkata	2) Guwahati	3) Puri	4) New Delhi		
12.	A certain distance was covered at a certain speed. If half of the distance					
	covered in twice	time, the ratio be	tween new speed a	nd original speed is-		
	1) 1:2	2) 1 : 4	3) 2:1	4) 4:1		
13.	The number of o	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 related to-					
	1) Blood Transfusion 2) Atmospheric Pressure					
V	3) Blood Pressure 4) Space					
16.	A force of 50N acts on a body and moves the body on a straight path to a					
	distance of 4 metres. Find the work done if the force acts at an angle of 60					
	with horizontal.	2) 2001	2) 101	4) 2001		
15	1) 100J	2) 300J	3) 10J	4) 200J		
17.	2			time period will be-		
10	1) Twice	2) Eight times	3) Half	4) None of these		
	A 1 4 19		4 6 1 1	4. 1.4.1		
18.				reaction but does not		
10.	undergo any cha	ange in itself, is cal	lled-			
	undergo any cha 1) Electrolyte	ange in itself, is cal 2) Catalyst	3) Lubricant	4) Litmus		
19.	undergo any cha 1) Electrolyte At constant tem	ange in itself, is cal 2) Catalyst aperature the volume	lled- 3) Lubricant me of a given mas			
	undergo any cha 1) Electrolyte At constant tem proportional to	ange in itself, is cal 2) Catalyst	lled- 3) Lubricant me of a given mas known as-	4) Litmus		
	undergo any cha 1) Electrolyte At constant tem proportional to 1) Charles' Law	ange in itself, is call 2) Catalyst aperature the voluments the pressure. It is	lled- 3) Lubricant me of a given mas known as- 2) Boyle's Law	4) Litmus		
	undergo any cha 1) Electrolyte At constant tem proportional to 1) Charles' Law 3) Avogadro's La	ange in itself, is call 2) Catalyst aperature the volumenthe pressure. It is	3) Lubricant me of a given mas known as- 2) Boyle's Law 4) Dalton's Law	4) Litmus s of a gas is inversely		
19.	undergo any cha 1) Electrolyte At constant tem proportional to 1) Charles' Law 3) Avogadro's La	ange in itself, is call 2) Catalyst aperature the voluments the pressure. It is	3) Lubricant me of a given mas known as- 2) Boyle's Law 4) Dalton's Law	4) Litmus s of a gas is inversely		

21.	Solenoid is a-				
	1) Shaft		2) Hollow tube		
	3) Tube on which	wire is coiled	4) Cell	~	
22.	At a uniform acc	cleration which of	the motion equation	ons is correct-	
	1) $v = u - at$		2) $v = u + at$		
	3) $s = ut - \frac{1}{2} at^2$		4) u = v + at	19.	
23.	A body starts fr	om rest at an acce	leration of 2m/sec	*2. The distance cov-	
	ered by the body	in 2 seconds is-			
	1) 2 m	2) 8 m	3) 4 m	4) 1 m	
24.	The c.g.s. unit of	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 in	nmersed in a liqui	d it experiences a loss	
		, · -	ight of liquid disp	laced by its immersed	
	part. This princi	ple is of-			
	1) Boyle	2) Pascal	3) Terricelli	4) Archimedes	
26.	The unit of force	e in cgs unit is-		200	
	1) Newton	2) Dyne	3) ms ⁻²	4) K	
27.	Humidity in the atmosphere is measured by-				
	1) Hydrometer	2) Hygrometer	3) Manometer	4) Pyrometer	
28.		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, mas	ss and velocity are	related as-		
	1) Momentum	= mass/veloc			
	2) Momentum	= mass × velo			
	3) Velocity	= mass × mor			
	4) Mass	= momentum	×velocity		
30.	1 second is p	oart of a mean sola	r day.		
V	1) $\frac{1}{84600}$	2) $\frac{1}{85000}$	3) $\frac{1}{86400}$	4) $\frac{1}{80000}$	
31.	The unit of Your	ng's Modulus of El	asticity in MKS sy	stem is-	

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	cast iron (in °C) is	s in the range of-	0.0	
	1) 1150-1300	2) 1800-1900	3) 1450-1600	4) 600-700	
34.	The buckling loa	nds depend upon-		2.	
	1) slenderness ratio 2) cross-sectional area				
	3) modulus of ela	sticity	4) All of the abov	re	
35.	'Anvil' is used in	the work of-	3		
	1) Forging	2) Welding	3) Fitting	4) Machining	
36.	In an electrical c	ircuit resistance is	55 Ohms and cur	rent 4 amperes. What	
	is voltage?	0.0.			
	1) 220V	2) 13.75V	3) 0	4) 110V	
37.	Bell metal contain	ins Cu and			
	1) A <i>l</i>	2) Sn	3) Zn	4) Ni	
38.	To produce flat s	surfaces by a recip	rocating type of m	nachine tool is called-	
V	1) Lathe	2) Shaper	3) Drill	4) Milling	
39.	Which is the mos	st elastic material?		3.	
	1) Rubber	2) Timber	3) Plastic	4) Steel	
40.	Which of the following	lowing has the high	hest Poisson's ratio	0?	
	1) Steel	2) Copper	3) Aluminium	4) Rubber	
41.	D.C. Generator	works on the basis	s of-		
	1) Faraday's law	of e.m.induction	2) Ohm's law		
	3) Lenz's law	20.0	4) Newton's law		
42.	When $x = 2$, the	value of $\left(0.5 - \frac{1}{x}\right)$)=?		
	1) 1.5	2) -1.5	3) 0.5	4) 0	
43.	What number ha	as to be added to tl	ne terms of 3:5 to	make the ratio 5:6?	
V	1) 13	2) 7	3) 12	4) 6	
44.	Find the value of	$f\left\{8-2\times\frac{8-2}{8+2}\right\}$	5}		
	1) 3	2) 2	3) 6	4) 4	

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45.	The sum of three	o congoquitivo num	hara ia 19. find tha	sum of the next three
10.	The sum of three consecutive numbers is 18; find the sum of the next three consecutive numbers?			
			2) 27	4) 25
4.6	1) 24	2) 30	3) 27	4) 35
46.	$\log_5 125 = x; x =$			100
	1) 25	2) 3	3) 2	4) 5
47.	Find the value of	of x in $(2^2)\frac{1}{3} (2x - \frac{1}{3})$	$+\frac{1}{2}$) = 2^{-5}	79.
	1) -4	2) +4	3) -2	4) +2
48.	A two digit num	ber is 7 times the s	sum of its two digit	ts. The number that is
	formed by reve	rsing its digits is 18	less than the orig	ginal number. What is
	the number?	^*		
	1) 52	2) 42	3) 62	4) 27
49.	A sum of money	becomes Rs. 20,92	5 in 2 years and R	s. 24,412.50 in 5 years.
	Find the rate of	interest and the su	ım of money	•
	1) 8%, Rs.17,560		2) 6.25%, Rs.18,6	500
	3) 7%, Rs.18,000)	4) 6.75%, Rs.17,7	775
- 0	KN 11 2		1	
50.	Find the sum fr	action which becor	$\frac{1}{2}$ when denote	minator is increased
	by 4. the same f	Proofice becomes	1, 41,	4 6 9 1 1 7
	by 4, the same i	raction becomes $\frac{1}{8}$	– wnen the numer	ator is reduced by 5.
	1) $\frac{3}{5}$	5		ator is reduced by 5. 4) $\frac{8}{12}$
7. 1	1) $\frac{3}{5}$	2) $\frac{5}{8}$	$3) \frac{6}{8}$	4) $\frac{8}{12}$
51.	1) $\frac{3}{5}$ Lux is the unit	$2) \frac{5}{8}$ of	3) $\frac{6}{8}$	4) $\frac{8}{12}$
51.	1) $\frac{3}{5}$ Lux is the unit of 1) magnetic flux	$2) \frac{5}{8}$ of	3) $\frac{6}{8}$ 2) frequency	4) $\frac{8}{12}$
	1) $\frac{3}{5}$ Lux is the unit (1) magnetic flux (3) sound intensit	$2) \frac{5}{8}$ of	 3) 6/8 2) frequency 4) level of illumination 	4) $\frac{8}{12}$
51.52.	1) $\frac{3}{5}$ Lux is the unit of 1) magnetic flux 3) sound intensit MISTAKE = 97	2) $\frac{5}{8}$ of (65412, NAKED = 8)	 3) 6/8 2) frequency 4) level of illumination 84123 then STAIN 	$4) \frac{8}{12}$ nation $= ?$
52.	1) $\frac{3}{5}$ Lux is the unit of 1) magnetic flux 3) sound intensit MISTAKE = 97 1) 65478	2) $\frac{5}{8}$ of (65412, NAKED = 8 2) 98175	 3) 6/8 2) frequency 4) level of illumination 84123 then STAIN 3) 89483 	$4) \frac{8}{12}$ nation $= ?$
	1) $\frac{3}{5}$ Lux is the unit of 1) magnetic flux 3) sound intensit MISTAKE = 97 1) 65478 GAMBLE = IC	2) $\frac{5}{8}$ of (65412, NAKED = 8 2) 98175 ODNG; FLOWER	3) $\frac{6}{8}$ 2) frequency 4) level of illuminary 3) 89483 = ?	4) $\frac{8}{12}$ nation =? 4) 68194
52.	1) $\frac{3}{5}$ Lux is the unit of 1) magnetic flux 3) sound intensit MISTAKE = 97 1) 65478 GAMBLE = IC 1) GMPXFS	2) $\frac{5}{8}$ of 2) $\frac{5}{8}$ 065412, NAKED = 8 2) 98175 0DNG; FLOWER 2) HNQYGT	3) $\frac{6}{8}$ 2) frequency 4) level of illuminary 3) 89483 = ? 3) GMPVDS	4) $\frac{8}{12}$ nation =? 4) 68194 4) None of these
52. 53.	1) 3/5 Lux is the unit (1) magnetic flux (3) sound intensit (4) MISTAKE = 97 (1) 65478 GAMBLE = IC (1) GMPXFS Ram started fro	2) $\frac{5}{8}$ of 2) $\frac{5}{8}$ 065412, NAKED = 8 2) 98175 0DNG; FLOWER 2) HNQYGT	3) $\frac{6}{8}$ 2) frequency 4) level of illumin 84123 then STAIN 3) 89483 = ? 3) GMPVDS walked 2km North	4) $\frac{8}{12}$ nation =? 4) 68194
52. 53.	1) 3/5 Lux is the unit (1) magnetic flux (3) sound intensit (4) MISTAKE = 97 (1) 65478 GAMBLE = IC (1) GMPXFS Ram started fro	2) $\frac{5}{8}$ of 2) $\frac{5}{8}$ of 65412, NAKED = 8 2) 98175 ODNG; FLOWER 2) HNQYGT om his house and v	3) $\frac{6}{8}$ 2) frequency 4) level of illumin 84123 then STAIN 3) 89483 = ? 3) GMPVDS walked 2km North	4) $\frac{8}{12}$ nation =? 4) 68194 4) None of these
52. 53.	1) $\frac{3}{5}$ Lux is the unit of the second	2) $\frac{5}{8}$ of 2) $\frac{5}{8}$ of 65412, NAKED = 8 2) 98175 ODNG; FLOWER 2) HNQYGT om his house and vath. How far is he f 2) 11 km	3) $\frac{6}{8}$ 2) frequency 4) level of illuming 34123 then STAIN 3) 89483 =? 3) GMPVDS walked 2km North from his house? 3) 4 km	1) $\frac{8}{12}$ That ion 1 = ? 4) 68194 4) None of these 1, then 3 km west and
52.53.54.	1) $\frac{3}{5}$ Lux is the unit of 1) magnetic flux 3) sound intensit MISTAKE = 97 1) 65478 GAMBLE = IC 1) GMPXFS Ram started from finally 6 km sound 1) 5 km Arrange the fordictionary?	2) $\frac{5}{8}$ of 2) $\frac{5}{8}$ of 65412, NAKED = 8 2) 98175 ODNG; FLOWER 2) HNQYGT om his house and vath. How far is he f 2) 11 km	3) $\frac{6}{8}$ 2) frequency 4) level of illuming 34123 then STAIN 3) 89483 =? 3) GMPVDS walked 2km North from his house? 3) 4 km	14) $\frac{8}{12}$ 15. Anation 16. = ? 17. Anation 17. Anation 18. Anation 19. A

56.	Incert	the	missing	numbers-
50.	Hisert	uie	missing	numbers-

2	6	?	?
54	18	81	27

1) 3 and 9

 $\frac{1}{2}$ 5 and 18

3) 6 and 12

4) 3 and 21

57. Which tool is used for chipping?

1. Chisel

2. Drill

3. Pliers

4. Hammer

58. "PICO" means-

1) 10^{-15}

 $2)\ 10^{-9}$

3) 10⁻¹²

4) 10⁻⁶

59. 1 nanometre = ?

1) 10⁻⁷ m

2) 10⁻⁸ m

3) 10^{-9} m

4) 10⁻⁶ m

60. The relation between wave velocity (V), frequency (f) and wave - length (λ) is-

1) $V = f\lambda$

2) $\lambda = Vf$

3) $f = \frac{\lambda}{V}$

4) $f = \lambda V$

61.
$$100K = ?$$

1) 170°C

2) -173°C

3) -273°C

4) 273°C

62. At 1.45 PM, the hour hand will be in the direction-

1. North - west

2. South - east

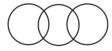
3. West

4. North - east

63. House, bedroom and bathroom are best represented by which venn diagram?



2) (



3)



4)



64. If the 26th August in a month is Friday, then the number of Tuesdays in that month will be-

1) 4

2) 5

3) 6

4) None of these

65. If the diameter of a sphere is 6 meters, its hemisphere will have a volume of-

1) 36π

2) 72π

3) 18π

4) None of these

66. What part of an hour elases from 4.56PM to 5.32 PM?

1) $\frac{1}{4}$

 $(2)\frac{3}{4}$

 $3)\frac{3}{5}$

 $4)\frac{1}{2}$

67. "Newton's Disk" when rotated rapidly appears

1) Yellow

2) White

3) Black

4) Green

68. Red Hematite is the ore of

			adapración		
	1) Copper	2) Zinc	3) Alumin	ium	4) Iron
69.	Specific Latent heat of vapourization of water is-				
	1) 540 calories/ gm		2) 80 calories/ g	m	X
	3) 540 k.calorie	s/gm^2	4) 80 k.calories/	gm^2	
70.	What percent	of CO ² by vol	lume constitutes t	he atm	osphere?
	1) 1% 2)	0.03%	3. 0.1%	4) 2	%
71.	Which Gupta ruler was crowned with the title of Vikramaditya?			ikramaditya?	
	1) Chandragupta-I		2) Chandragupta	-II	
	3) Skundgupta		4) Samudragupta	ì	
72.	The father of I	Rabindrabhar	nath Tagore was-		
	1) Ratindranath	11	2) Dwarkanath		
	3) Avanindrana	th O	4) Devendranath	Ĺ	
73.	Which of the f	ollowing films	stars was lovingly	called	"Dadamuni"?
	1) Sanjeev Kun	nar	2) Asit sen		
	3) Ashok Kuma	r	4) Kishore Kumar		
74.	The unit to me	asure the spe	ed of ships is-		200
	1) mile	2) kmph	3) knot		4) mph
<i>75.</i>	National Defence Academy is situated in-				· 3.
	1) Dehradun		2) New Delhi	10)	
	3) Kharagwasal) Kharagwasala 4) Nasik			
76.	Dhanpat Rai is	s popularly ki	nown as-		
	1. Nirala	2. Hari Au	dh 3. Bachch	an	4. Premchand
77.	The Khajurah	o temples are	situated in-		
	1) Madya prade	esh O	2) Uttar P	radesh	
	3) Rajasthan	100	4) Bihar		
78.	The famous "C	Sateway of In	dia" is situated in		
	1) Mumbai	2) Agra	3) New D	elhi	4) Kolkata
79.	Which has pin	k colour ?			
	1) India Gate		2) Victoria	a Mem	orial
	3) Hawa Mahal		4) Lotus T	emple	
80	Hinvana and N	Tahayana are	two sects of		

www.eenadupratibha.net 1) Sikhism 2) Hinduism 3) Buddhism 4) Jainism 81. Status of Liberty is situated in-1) Spain 2) UK 3) US 4) Italy Who is called Bharatendu? 82. 1) Rabindranath 2) Premchand 3) Hrishchandra 4) Bachchan 83. Euro is the currency of 3) Canada 4) Mexico 1) Germany 2) New Zealand NaCl is the chemical formula of-84. 3) Baking soda 1) Urea 2) Salt 4) Lime 85. Seismology is the scientific study of 2) Weather coditions 1) Earthquake 3) Volcanoes 4) Rocks 86. Who was the last viceroy of India? 1) C.Rajgopalachari 2) Lord Wavell 3) Lord Canning 4) Mountbatten 87. Haldiya oil refinery is situated in-4) W.Bengal 1) Bihar 2) Jharkand 3) Orissa 88. Which of the following cities is also called Prayag? 1) Lucknow 4) Nasik 2) Allahabad 3) Patna **ANSWERS** 1-1; 2-2; 3-1; 4-2; 5-1; 6-3; 7-2; 8-3; 9-1; 10-3; 11-4; 12-2; 13-2; 14-1; 15-1; 16-1; 17-3; 18-2; 19-2; 20-3; 21-3; 22-2; 23-3; 24-1; 25-4; 26-2; 27-2; 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; 41-1; 42-4; 43-2; 44-2; 45-3; 46-2; 47-1; 48-2; 49-2; 50-3; 51-4; 52-1; 53-2; 54-1; 55-2; 56-1; 57-1; 58-3; 59-3; 60-1; 61-2; 62-4; 63-3; 64-2; 65-3; 66-3; 67-2; 68-4; 69-1; 70-2; 71-2; 72-4; 73-3; 74-3; 75-3; 76-4; 77-1; 78-1; 79-3; 80-3; 81-3; 82-3; 83-1; 84-2; 85-1; 86-1; 87-4; 88-2.