1. The relation between diameter of rivet (d) and the thickness of plate (t) is:	12. The highest score in a cricket test match in an innings was 5/21 of the total, and the next high-						
1. $d = 3\sqrt{t}$ 2. $d = 4\sqrt{t}$	est was 5/24 of the remainder. Difference between the scores was 25 runs. What was the total score?						
3. $d = 5\sqrt{t}$ 4. $d = 6\sqrt{t}$	1, 260 2, 275 3, 300 4, 315						
2. The example of a dead weight governor is	13. A prize money is divided between A, B and C. A						
Watt governor 2. Hart nell governor	receives 2/5 of the prize, B receives 1/9 of the						
3. Porter governor 4. Pickering governor	remainder. If C's share is Rs. 80. find the value of						
3. The most suitable metal for making electro -	the prize						
magnets and transformer cores is	1. Rs. 130 2. Rs. 150						
1. Steel 2. Iron	3. Rs. 180 4. Rs. 220						
3. Copper 4. Aluminium	14. The cost of manufacturing a car is made up of						
4. The relative permeability of iron is of the order of	three items; cost of materials, labour and over-						
1. 1 2. 10 ⁴ 3. Zero 4. 10 ⁻⁴	heads. In 2002, the cost of these items was in the						
5. Modulus of elasticity is defined as the ratio of:	ratio of 5:4:3. In 2003, the cost of materials rose						
1. Shear stress to shear strain	by 16%, the cost of labour increased by 10% but						
2. Linear stress to linear strain	the overheads reduced by 8%, What is increased						
3. Linear stress to lateral strain	per cent in the price of car?						
4. Lateral stress to linear strain	1. 6% 2. 7%						
6. The smallest planet of solar system is	3. 8% 4. 12%						
1. Mars 2. Mercury	15. If the rainfall on a certain day was 3.5 cm, how						
3. Venus 4. Pluto	many liters of water fell on 1 hectare land on						
7. In a certain code SHOVE is written as VKRYH,	that day?						
then PISTOL will written as:	1. 350000 litres 2. 35000 litres						
1. SLVWRO 2. SVLWRO	3. 3500 litres 4. 350 litres						
3. SVLURO 4. VLSWRO	16. Two equal sums were lent out at 7% and 5% sim-						
8. A lunar eclipse happens when :	ple interest respectively. The interest earned on the two loans add up to Rs. 960 for 4 years. Find						
1. Moon comes between earth and sun	the total sum lent out:						
2. Sun comes between earth and moon	1. Rs. 3,860 2. Rs. 4,000						
3. Earth comes between sun and moon	3. Rs. 4,100 4. Rs. 4,230						
4. None of these	17. A man sells two tables at equal price. He sells						
9. The currency of Italy is called:	one at 10% gain and other at 10% loss. What is the						
1. Lira 2. Euro 3. Franc 4. Corner	gain/loss per cent in this transaction?						
10. The richter scale is used to record:	1. 1.1% loss 2. 1% lose						
1. Velocity of air 2. Earthquake	3. 1% gain 4. 1.1% gain						
3. Intensity of earthquake 4. Pressure	18. A photographer allows a discount of 16% at the						
II. What is the kinetic energy of rotation when a	marked price. At what price should he mark the						
body of mass moment of inertia I about a given	camera of cost Rs. 600 so that he gains 20% after						
axis is rotated about that axis with an angular	allowing discount?						
velocity ω?	1. Rs. 760 2. Rs. 780						
1. $I.\omega$ 2. $^{1}/_{2}I.\omega^{2}$ 3. $I.w^{2}$ 4. $^{1}/_{2}I.\omega$	3. Rs. 1000 4. Rs. 820						
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)						

19.		er (in ml) that should be	35. Night-blindness is caused by lack of which vita-					
		ml lotion, containing 50%	2.77.75.707.76.	0 174 P				
		ntaining 30% alcohol is	1. Vitamin D	2. Vitamin B				
90	1. 3 2.4	3. 5 4. 6	3. Vitamin A	4. Vitamin C				
40.		ace of question mark (?)		weight of liquid to specific				
	1, 2, 5, 10, 13, 26, 29, 5		weight of a standard	The state of the s				
04	1. 61 2. 63	3. 69 4. 71	1. Specific volume	2. Weight density				
21.		ng has the smallest wave-	3. Specific gravity	4. Density				
	length?		37. B.C.G. vaccine prote					
	1. Red	2. Blue	1. Polio	2. TB				
	3. Green	4. Violet	3. Typhoid	4. Small pox				
22.	A light year is neares			ucing region of Gujarat is				
	1. 10 ⁸ m	2. 10 ¹² m	1. Aanad	2. Kalol				
	3. 10 ¹⁶ m	4. 10 ²⁰ m	3. Ankaleshwar	4. Kari				
23.	A dimensionless quar	ntity:	 Periyar hydro-electr 	ric project is situated in:				
	1. May have a unit	2. Never has a unit	1. Karnataka	2. Kerala				
	3. Always has a unit	4. Doesn't exist	3. Tamil Nadu	4. Andhra Pradesh				
24.	The largest producer	of pulses in India is	40. The Brahmo Samaj	was founded in the year				
	1. Uttar Pradesh	2. Rajasthan	1. 1826	2. 1828				
	3. Madhya Pradesh	4. Maharashtra	3. 1823	4. 1825				
.25.	The minimum annua	l temperature difference is	41. The Green ambass:	ador Megasthanese visited				
13	found in		India during the rei	gn of:				
	1. Tiruvanantpuram	2. Mumbai	1. Chandragupta Maur	rya 2. Samudragupta				
	3. Panaji	4. Patna	3. Ashoka	4. Harshavardhan				
26.	'Land of the Morning	Calm' refers to:		y was founded in 1320 by:				
	1. Japan	2. Taiwan	1. Ghiasuddin Tughlaq					
	3. Tibet	4. Korea	3. Feroze Tughlaq	4. None of these				
27.		ion took place in the year		roy when Jalianwalabagh				
	1. 1905 2. 1909	3. 1917 4. 1927	tragedy took place o	The state of the s				
28.	The Head quarters o		1. Lord Reading	2. Lord Irwin				
	1. New York	2. Washington	3. Lord Chelmsford	4. Lord Minto				
	3. Rome	4. France		ing is an example of chemi-				
29.		the book titled 'Discovery	cal reaction	ing is an example of chemi-				
	of India'?	the book titled Discovery		bar 2. Burning of a candle				
	1. J.L. Nehru	2. Indira Gandhi	3. Melting of ice	4. None of these				
	3. M.K. Gandhi	4. C. Rajagopalachari	45. Davis cup is related					
20	Santosh trophy is as		1. Lawn Tennis					
		40 M M TO LOT LOT STORE ST						
	1. Cricket	2. Football	3. Golf	4. Hockey				
91	3. Hockey	4. Tennis	46. Enron electric proje					
01.		t of Nobel Prize 2004 for	1. Maharashtra	2. Kerala				
	Literature?		3. Assam	4. Bihar				
	1. Nancy Jelinek	2. J.M. Coetzee		arted Dandi March to break				
00	3. P.C. Paul	4. Elfride Jelinek	salt law on:	The same of the sa				
dz.		ebrated as 125th Birth	1. April 6, 1930	2. March 12, 1930				
		h literary personality?	3. March 12, 1931	4. April 6, 1931				
	1. Gurudev Rabindrana	ath Tagore	48. The Constituent As	sembly adopted the Indian				
	2. Munshi Premchand	Market State of the State of th	Constitution on:					
	3. Dr. S. Radhakrishna	n	1. January 26, 1950	2. August 15, 1947				
	4. Sarojini Naidu		3. January 30, 1950	4. November 26, 1950				
33.	Pandit Jawaharlal	Nehru, the first Prime	49. Radha Reddy and	Raja Reddy are the pro-				
	Minister of India, wa	s born in the year:	pounders of which o	classical dance?				
	1. 1859 2. 1869	3. 1879 4. 1889	1. Kuchipudi	2. Odissi				
34.	What is the main p	urpose of white blood cor-	3. Kathak	4. Kathakali				
	puscles?		50. Home Rule League I	Movement was started by				
	1. To carry nutrients	2. To carry oxygen	1. Bal Gangadhar Tila					
	3. To combat infection	4. To help in clotting	3. Gopal Krishna Gokl					

51.	Voltmeter is used to me	easure:		is associated with which of
	1. Power	2. Displacement	the following?	
	3. Current	4. Potential difference	1. Soils	2. Fossils
		is the most industrialised	3. Rocks	4. Buildings
603	state?	1.10.10.10.10.10.10.10.10.10.10.10.10.10		is associated with which of
	1. West Bengal	2. Bihar	the following?	0.17
	3. Maharashtra	4. Rajasthan	1. Hardness	2. Fatigue
53.	Which of the following	is a vector?	3. Creep	4. None of these
	1. Power	2. Displacement	69. To check the growth	of algae in water reservoirs
	3. Work	4. Potential		ng chemicals is used?
54.	In which state the foll	dance 'Ghoomar' is per-	1. Brine	2. Alum
-	formed?	AL SOUTH	3. Copper sulphate	4. Bleaching powder
	1. Gujarat	2. Rajasthan	70. At every high press	ure a real gas, as compared
	3. Orissa	4. Nagaland	to an ideal gas, occu	
55.	The electoral college	to elect President consist	1. same volume	2. less volume
	of the elected member	s of	3. more volume	
	1. Lok Sabha	CONSTRUCTION OF THE PROPERTY O	71. Capacity of a dry ce	ell is:
	2. Lok Sabha and Rajya	Sabha		pplying current for intermittent
		a and Legislative Assemblies	periods	
	4. Rajya Sabha	7.	THE PARTY OF THE P	applying current for continuous
56.	Tipu Sultan was killed	lin	periods	* SOURCE STORY
	1, 1799 2, 1798	3, 1797 4, 1796	unaffected by the f	type of discharge
57.		s a result of the emission of	4. None of these	on the passage of the state of the
	1. Alpha particles	2. Beta particles		ximum pressure and heat
	3. Gamma – rays	4. X-rays	input, the most effic	
59	The least energy is ra	Control of the Contro	1. Otto cycle	2. Diesel cycle
001	1. X-rays	2. Gamma-rays	3. Brayton cycle	4. Dual combustion cycle
	3. Electric waves	4. Alpha-rays	73. The property by w	hich an amount of energy is
50	A charged capacitor p			rial without plastic deforma-
00.	1. kinetic	2. potential	tion is called	55 1 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	3. electrostatic	4. magnetic	1. toughness	2. impact strength
en.		ng is the source of solar	3. ductility	4. resilience
00.	energy?	ing is the source of some	74. A carnot engine re	ceiving heat at 400 K has an
	1. Magnetic Radiation	2. Burning hydrogen	efficiency of 25%.	The C.O.P. of a carnot refrig-
	3. Chemical energy	4. Nuclear fission/fusion		tween the same temperature
61	Woollen clothes keen u	s warm in winter because:	limit is:	
01	1. they give heat to body		1, 1	2. 2
	2. they protect the heat	of hody from escaping	3. 3	4.4
	3. they protect the field	from entering the body	75. Second law of the t	hermodynamics defines:
	4. None of these	from entering the body	1. heat	2. work
00		instrument used to meas-	3. enthalpy	4. entropy
62	ure:	i metrument used to meas	76. Why are oil rings s	
	1. rainfall	2. altitude		ape for the oil that the slot edges
	3. relative humidity	4. temperature	cut from the cylin	
00	Which is the source o		2. To minimize frict	
63	1. Aragonite	2. Cassiterite	3. To remove oil from	
	1. Aragonite 3. Cerussite	4. Calamine	4. To reduce the bul	
-				is generated by an engine
64	An alloy of copper an	2. Brass	when:	CONTRACTOR AND THE
	1. Bronze	4. Y-alloy	1. it runs at lowest s	
7.4	3. Gunmetal	name of Bleaching Powder?	2. it develops maxim	
65		2. Sodium hydroxide	3. it consumes maxir	
	1. Copper sulphate		4. it runs at maximu	m speed .
	3. Potassium hydroxide	4. Calcium hypochlorite		um energy loss occurs due to
66		of carbon is available in:	1. radiant losses	2. flue gases
	1. mild steel	2. high carbon steel	3. incomplete combu	stion 4. unburnt carbon in ash
	3. cast iron	4. stainless steel	No. of the last of	T

100	25		
79. Th	ne ratio of indicat nown as efficien	ted power to shaft power is	82. Bending moment on a section s maximum when
	adiabatic		shear force is
		2. mechanical	1. zero 2. maximum 2.
	isothermal	4. volumetric	3 minimum
80. Th	e performance of	reciprocating compressor is	93. Fuel used for blast furnace is
co	mpared on the ba	sis of efficiency	1. coal 2. coke
	volumetric	2. mechanical	2. CORE
	over all	4. isothermal	Of The included at 1 1
81. W	nich of the follow	ing features improves the	94. The included angle between V-belt is usually between
fat	igue strength of a	metallic material?	1 100 200 0 200 400
1. 1	Increasing the temp	erature	0, 00 -00 4, XII -3II
2. 8	Scratching the surfa	ce	95. In screw jack, effort required to lift a load is
3. (Overstressing		give by
	Jnder-stressing		1. $P = \omega \tan (\alpha + \phi)$ 2. $P = \omega \tan (\alpha - \phi)$
82. Wh	ich of the followin	ng statement is correct?	3. $P = \omega \tan (\phi + \alpha)$ 4. None of these
1. F	Energy and work are	englare	96. The separation between two points in space is
2. F	Energy momentum	and velocity are vectors	called
3. F	orce momentum or	nd velocity are scalars	1. Volume 2. Width 3. Area 4. Length
4 F	orce and work are v	id velocity are scalars	97. Electrodes used in spot welding have a tip of
on The	rottling process is	ectors	1. Aluminum 2. Brass
	eversible		3. Carbon 4. Copper
		2. irreversible	98. Damping current can be produced by
		4. None of these	1. Eddy currents 2. Resistance
84. Nat	ural frequency is	independent of	3. Potential 4. Magnet
1. ai	mplitude of oscillation	on 2. mass of the system	99. If $6 \times 6 = 33$, $8 \times 2 = 41$ and $4 \times 5 = 22.5$ then 8×6
3. st	iffness of the system	n 4. All of these	= ?
85. Reg	enerative cycle ef	ficiency:	1. 24 2. 43 3. 38 4 2.66
1. i	s same as simple Ra	nkine cycle thermal efficiency	100. What will come in place of question mark (?) in
2, 1	s always less than :	simple Rankine cycle thermal	the following question?
e	efficiency	The same of the Contract of th	total and the desiration:
3. i	s always greater tha	an simple Rankine cycle ther-	(? 2
I	nal efficiency	was a second light	9 3
4. N	None of these		7 4
86. Whi	ch of the followir	ng modes of heat transfer	5 5
wou	ld take place pr	edominantly, from boiler	1, 10 2, 11 3, 12 4, 12
furn	ace to water wall	?	0, 12 4, 13
1. Co	nvection	2. Conduction	101. The nominal head of Commonwealth countries
3. Ra	diation	4. Conduction and Convection	is: a make supressing your makes pulled the
87. As w	arm air cools, its	relative humidity:	1. Queen of England
1. de	creases	2. increases	2. Pope was and their to some action of pully 3
3. rer	mains unchanged	4. unpredictable	3. Secretary-General of the United Nations
		id which determines its	4. President of the United States
resis	tance to shearing	stresses is called	5. None of these
1. vis	cosity	2. surface tension	102. Which of the following statements is incorrect?
	npressibility	VAC-DITION TO CONTRACT THE	Sri Ronald Ross discovered the cause of malaria
	unit of stress in S.	4. None of these	2. Vasco de Gama discovered the sea route to India in
1. N/r	n2		15 th century
3. N/r		2. kN/mm ²	
	The second second	4. All of these	3. Edward Jenner discovered vaccination
m, in an	automobile, the p	ower is transmitted from	4. Henry Cavendish discovered oxygen
1 V	ear box to the diff		5. Marc Polo was a famous inventor who travelled China
	uckle join	2. Bevel gears	103. Lignite is a type of:
	oke's joint	4. Oldham's coupling	1. marble 2. sand 3. iron 4. coal
1. For fa	atigue loading, fact	or of safety is the ratio of:	5. manganese
1. end	urance limit to the	working stress	104. Sir Issac Pitman was propounder of:
2. elas	stic limit to the work	cing stress	Typing System 2. Drugs for malaria
3. elas	stic limit to the yield	ling point	3. Antibiotics 4. Printing Press
4. You	ngs modulus to the	ultimate tensile strength	5. Computer
			57F 37/K

	5. The line joining the places located at the same							me	113. What was the name of prevalent currency in the							ıe		
1	height from sea level is called: 1. Isobars 2. Longitudes 3. Latitudes 4. Isopleths						Mauryan Empire?											
-							Co.	1. Pana					Tola					
-								Kakni			4. 1	Dinar						
	5. Equa								5. None of these									
106. Which of the following States of India is main								ain	114. The imaginary line on the surface of the Earth									
3	produ	cer of	bauxit	e?				294	which is parallel to 180° meridian is called:									
	1. Bihar 2. Gujarat							1. International Date Line										
	3. Mad	hya Pr	adesh	4	. Andhi	ra Prad	esh		2. Tropic of Cancer 3. Equator									
3	5. All o	f the al	bove															
107.	Which	of the	follov	ving ci	ities of	India	is fam	ous	4. Prime Meridian 5. None of these									
	for tra	de of	diamor	nd?														
	1. Jaip	ur		2	2. Surat				115. T	he slee	pers u	sed by	India	n Raily	way on	railwa	1	
	3. Mun			4	L. Bang	alore	SE SECTION	-		acks i		- 22						
	5. Non	e of the	ese						25.5	Woode		er	2.5	Steel sl	eeper			
			onweal	th Ga	mes w	ill be	organi	ised		Cast s		77		Iron sle	97550 W.S.			
	in:	ALCO P					NO PERSONAL PROPERTY AND ADDRESS OF THE PERSONAL			All of	CARL TRACK	VP.	-71	100000000		130		
	Paratrick	ted Sta	tes of A	merica									o evml	hal of				
	2. Can								116. Bow and Arrow is the symbol of: 1. Telugu Desam 2. DMK 3. Janata Dal									
	3. Aust							Call										
	4. Pak																	
	5. Indi		(125-0			E I MO												
109			our an	imals	in the	nation	al emb	olem	4. Bharatiya Janata Party									
			e thre						5. None of these 117. Who among the following was not a ruler of									
			The fou					0101100										
			ine ioc		2. Deer				Maurya dynasty?									
	1. Tige				4. Bear			_B_	1	. Ajatsa	tru		2. Chandragupta Maurya					
	3. Bull		-		4. Dear					Ashok			4.	Brihad	ratha			
***	5. Leo		c 11			innala	atnonic	.2	5	None	of thes	e						
110.			e follo						118. 7	he lar	gest p	roduce	r of ru	ber in	India	is:		
		and CI	O design		2. Na+					. Keral				Karnat				
		and M	77		4. Mg a	ind ive		93 8		. Maha			4.	Assam				
	THE RESIDENCE OF THE PARTY OF T	ne of th		-			1	41		. Andh			150					
ш.			time					tne					mitte	with	in cells	bv.		
	Presi	dent o	f India	n Nati			88?		1. RNA				nsmitted within cells by. 2. DNA					
	1. One				2. Two				193	Ribos	óma		4. Mitochondria					
3. Four times 4. Three times				0.0					MILLOCA	ioriar ra	ALT.							
5. Eight times 112. Amir Khusro was the court poet of				1010			5. None of these				owing is ferro-magnetic?							
112.				the co			1 7 11 1		1000000			ionow		Bismu				
		oz Tugl	nlaq			ndar L			No.	l. Nicke						Mark.		
3. Balban 4. Alauddin Khilji					3. Alum			4.	Quart	4								
	5. No	ne of th	iese						- 6	5. None	of thes	e						
		8.0	10		11-11		AB	TOW	7101	20	Land I	Vened vo	College	-	N Dane	a said		
115							AI		VEI						17110			
1	1.4	2.3	3.2	4.2	5.2	6.4	7.1	8.3	9.2	10.3	11.2	12.4	13.2	14.3	15.3	16.2		
tis	17.2	18.3	19.4	20.1	21.4	22.3	23.1	24.3	25.1	26.4	27.3	28.3	29.1	30.2	31.4	32.2		
	33.4	34.3	35.3	36.3	37.2	38.3	39.2	40.2	41.1	42.1	43.3	44.2	45.1	46.1	47.1	48.4		
	49.1	50.1	51.4	52.3	53.2	54.2	55.3	56.1	57.2	58.1	59.3	60.4	61.2	62.2	63.3	64.1		
					69.4	70.2	71.1	72.4	73.4	74.4	75.4	76.1	77.1	78.1	79.2	80.1		
	65.4	66.3	67.2	68.1					89.1	90.1	91.2	92.4	93.2	94.2	95.1	96.3		
	81.4	82.1	83.2	84.1	85.2	86.4	87.1	88.3	09.1	30.1	31.2	UZIT	00.4	U TIM				

97.4 98.1 99.2 100.2 101.1 102.5 103.4 104.1 105.4 106.5 107.2 108.5 109.3 110.2 111.1 112.4

113.1 114.1 115.5 116.5 117.1 118.1 119.1 120.5