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						
1. 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						
Moon comes between earth and sun	the two loans add up to Rs. 960 for 4 years. Find						
2. Sun comes between earth and moon	the total sum lent out:						
3. Earth comes between sun and moon	1. Rs. 3,860 2. Rs. 4,000						
4. None of these	3. Rs. 4,100 4. Rs. 4,230						
9. The currency of Italy is called:	17. A man sells two tables at equal price. He sells						
1. Lira 2. Euro 3. Franc 4. Corner	one at 10% gain and other at 10% loss. What is the						
10. The richter scale is used to record:	gain/loss per cent in this transaction?						
1. Velocity of air 2. Earthquake	1. 1.1% loss 2. 1% lose						
	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 axis is rotated about that axis with an angular	camera of cost Rs. 600 so that he gains 20% after						
velocity ω?	allowing discount?						
1. $I.\omega$ 2. $^{1}/_{2}I.\omega^{2}$ 3. $I.w^{2}$ 4. $^{1}/_{2}I.\omega$	1. Rs. 760 2. Rs. 780						
1. 1.00 2. 12 1.00 0. 1.W 4. 12 1.00	3. Rs. 1000 4. Rs. 820						

19.		er (in ml) that should be	35. Night-blindness is caused by lack of which vita-
		ml lotion, containing 50%	main?
		ntaining 30% alcohol is	1. Vitamin D 2. Vitamin B
on.	1. 3 2.4	3. 5 4. 6	3. Vitamin A 4. Vitamin C
20.		ace of question mark (?)	36. The ratio of specific weight of liquid to specific
	1, 2, 5, 10, 13, 26, 29, 58		weight of a standard liquids is
	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 protects against:
	1. Red	2. Blue	1. Polio 2. TB
	3. Green	4. Violet	3. Typhoid 4. Small pox
22.	A light year is neares		38. The largest oil producing 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 quan	ntity:	39. Periyar hydro-electric 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		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.		temperature difference is	41. The Green ambassador Megasthanese visited
-	found in	temperature difference is	India during the reign of:
		0 M	
	1. Tiruvanantpuram	2. Mumbai	1. Chandragupta Maurya 2. Samudragupta
ne.	3. Panaji	4. Patna	3. Ashoka 4. Harshavardhan
20.	'Land of the Morning	EAT THE CONTRACT OF THE PARTY O	42 The Tughalq dynasty was founded in 1320 by:
	1. Japan	2. Taiwan	1. Ghiasuddin Tughlaq 2. Mohammad Bin Tughalq
	3. Tibet	4. Korea	3. Feroze Tughlaq 4. None of these
27.		ion took place in the year	3. Who was the Viceroy when Jalianwalabagh
	1. 1905 2. 1909	3. 1917 4. 1927	tragedy took place on April 13, 1919?
28.	The Head quarters of	FAO is located in	1. Lord Reading 2. Lord Irwin
	1. New York	2. Washington	3. Lord Chelmsford 4. Lord Minto
	3. Rome	4. France	44. Which of the following is an example of chemi-
29.	Who is the author of	the book titled 'Discovery	cal reaction
	of India'?		1. Magnetising an Iron 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 to:
30.	Santosh trophy is ass		1. Lawn Tennis 2. Cricket
	1. Cricket	2. Football	3. Golf 4. Hockey
	3. Hockey	4. Tennis	46. Enron electric project is situated in state of
31.		t of Nobel Prize 2004 for	1. Maharashtra 2. Kerala
	Literature?	t of Nobel 1112e 2001 to	3. Assam 4. Bihar
	1. Nancy Jelinek	2. J.M. Coetzee	47. Mahatma Gandhi started Dandi March to break
	3. P.C. Paul	4. Elfride Jelinek	salt law on:
22		brated as 125th Birth	
· ·			1. April 6, 1930 2. March 12, 1930
		literary personality?	3. March 12, 1931 4. April 6, 1931
	1. Gurudev Rabindrana	th Tagore	48. The Constituent Assembly adopted the Indian
	2. Munshi Premchand	War and the same of the same o	Constitution on:
	Dr. S. Radhakrishnar	1	1. January 26, 1950 2. August 15, 1947
00	4. Sarojini Naidu	Sanstano Instano Mercani	3. January 30, 1950 4. November 26, 1950
33.		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 classical dance?
112000	1. 1859 2. 1869	3. 1879 4. 1889	1. Kuchipudi 2. Odissi
34.	What is the main pu	rpose of white blood cor-	3. Kathak 4. Kathakali
	puscles?		50. Home Rule League Movement was started by
	1. To carry nutrients	2. To carry oxygen	1. Bal Gangadhar Tilak 2. Raja Ram Mohan Roy
	3. To combat infection	4. To help in clotting	3. Gopal Krishna Gokhale 4. None of these

51	Voltmeter is used to me	easure:	67. Radio carbon datin	ng 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
	state?		68. Bauschinger effect	t is associated with which of
	1. West Bengal	2. Bihar	the following?	
	3. Maharashtra	4. Rajasthan	1. Hardness	2. Fatigue
			3. Creep	4. None of these
53.	Which of the following	2. Displacement		th of algae in water reservoirs
	1. Power	4. Potential	which of the follow	ving chemicals is used?
	3. Work		1. Brine	2. Alum
54.		dance 'Ghoomar' is per-	3. Copper sulphate	4. Bleaching powder
	formed?	a D t of	70 At every high pres	ssure a real gas, as compared
	1. Gujarat	2. Rajasthan	to an ideal gas, occ	
	3. Orissa	4. Nagaland	1. same volume	2. less volume
55.	The electoral college	o elect President consist	3. more volume	4. Any of these
	of the elected member	s of		12.000
	1. Lok Sabha	MIEM KE BERTHAND	71. Capacity of a dry	cen is:
	2. Lok Sabha and Rajya	Sabha		supplying current for intermittent
	3. Lok Sabha, Rajya Sabha	a and Legislative Assemblies	periods	1
	4. Rajya Sabha			supplying current for continuous
56.	Tipu Sultan was killed	lin	periods	'- Common and and
-	1. 1799 2. 1798	3, 1797 4, 1796	3. unaffected by the	e type of discharge
57		s a result of the emission of	4. None of these	after the special people from age. An
01.	1. Alpha particles	2. Beta particles	72. For the same m	aximum pressure and heat
	3. Gamma – rays	4. X-rays	input, the most ef	ficient cycle is:
-		CARSON CONTRACTOR	1. Otto cycle	2. Diesel cycle
58.	The least energy is ra		3. Brayton cycle	4. Dual combustion cycle
	1. X-rays	2. Gamma-rays	73. The property by	which an amount of energy is
	3. Electric waves	4. Alpha-rays	absorbed by a mat	terial without plastic deforma-
59.	A charged capacitor p		tion is called	
	1. kinetic	2. potential	1. toughness	2. impact strength
	3. electrostatic	4. magnetic	3. ductility	4. resilience
60.	Which of the followi	ng is the source of solar	74 A carnot engine r	receiving heat at 400 K has an
	energy?		officiency of 25%	The C.O.P. of a carnot refrig-
	1. Magnetic Radiation	2. Burning hydrogen	orator working h	etween the same temperature
	3. Chemical energy	4. Nuclear fission/fusion	limit is:	
61	Woollen clothes keep u	s warm in winter because:	1. 1	2. 2
	1. they give heat to body			4. 4
	2. they protect the heat	of body from escaping	3. 3	thermodynamics defines:
	3. they protect the cold i			2. work
	4. None of these		1. heat	
20		instrument used to meas-	3. enthalpy	4. entropy
02	ure:	making a second and a second as a second	76. Why are oil rings	slotted?
	1. rainfall	2. altitude		scape for the oil that the slot edges
	3. relative humidity	4. temperature	cut from the cyl	
00			2. To minimize fric	
63	. Which is the source o		3. To remove oil fr	
	1. Aragonite	2. Cassiterite	4. To reduce the b	
	3. Cerussite	4. Calamine	77. Maximum torque	e is generated by an engine
64	. An alloy of copper an		when:	
	1. Bronze	2. Brass	1. it runs at lowest	speed
	3. Gunmetal	4. Y-alloy	2. it develops maxi	
65		name of Bleaching Powder?	3. it consumes max	
	1. Copper sulphate	2. Sodium hydroxide	4. it runs at maxim	
	3. Potassium hydroxide	4. Calcium hypochlorite		num energy loss occurs due to
66	. Highest percentage o	f carbon is available in:	1. radiant losses	2. flue gases
	1. mild steel	2. high carbon steel		oustion 4. unburnt carbon in ash
	1. Hilly steel			

79.	The ratio of indica	ted power to shaft power i	92. Bending moment on a section s maximum v	
	known as efficien	icy	shear force is	vhen
	1. adiabatic	2. mechanical	1. zero 2. maximum	
	3. isothermal	4. volumetric	2 minimum	
80.	The performance of	reciprocating compressor i	s 93. Fuel used for blast furnace is	
	compared on the ba	sis of efficiency	1. coal 2. coke	
	1. volumetric	2. mechanical	2. Coke	
	3. over all	4. isothermal	The included 1 1 1	
81.	Which of the follow	ving features improves the	94. The included angle between V-belt is usu	ially
	latigue strength of a	metallic material?	1 100 000 0 000 100 0 000	
	1. Increasing the temp	erature	4. ZII =	30°
	2. Scratching the surfa	ice	95. In screw jack, effort required to lift a loa give by	d is
	3. Overstressing			
	4. Under-stressing		1. $P = \omega \tan (\alpha + \phi)$ 2. $P = \omega \tan (\alpha - \phi)$	
82.		ng statement is correct?	3. $P = \omega \tan (\phi + \alpha)$ 4. None of these	
	1. Energy and work are	e scalars	96. The separation between two points in spac	e is
	2. Energy, momentum :	and velocity are vectors		
	3. Force, momentum ar	nd velocity are scalars		h
	4. Force and work are	vectors	97. Electrodes used in spot welding have a tip o	f
	Throttling process is			
	1. reversible	2. irreversible	3. Carbon 4. Copper	
	3. theoretical	4. None of these	98. Damping current can be produced by	
	Natural frequency is	independent of	1. Eddy currents 2. Resistance	
12 100	1. amplitude of oscillati	on 2. mass of the system	3. Potential 4. Magnet	
	3. stiffness of the system	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
85	Regenerative cycle e	efficiency	A second	
00,	1 is same as simple De	inciency:	1. 24 2. 43 3. 38 4. 2.66	
	2. is same as simple Ka	ankine cycle thermal efficiency	100. What will come in place of question mark (?)	in
	efficiency	simple Rankine cycle thermal	the following question?	
	Secretary and the secretary an		Marian Section 1	
	o. is always greater th	an simple Rankine cycle ther-	2 2	
- 3	mal efficiency		9 3	
	4. None of these		7/14/	
86.	which of the following	ng modes of heat transfer	5 5	
-	would take place pr	redominantly, from boiler	1, 10 2, 11 3, 12 4, 13	
	urnace to water wall		101. The nominal head of Commonwealth countr	
	. Convection	2. Conduction	ie.	ies
	. Radiation	4. Conduction and Convection	1 Ougan of Eugland	
87. A	as warm air cools, its	relative humidity:	2. Pope	
	. decreases	2. increases		
	. remains unchanged	4. unpredictable	3. Secretary-General of the United Nations	
88. T	he property of a flu	uid which determines its	4. President of the United States	
r	esistance to shearing	stresses is called	5. None of these	
1.	. viscosity	2. surface tension	102. Which of the following statements is incorrect	1?
	compressibility	4. None of these	 Sri Konald Ross discovered the cause of malaria 	
39. T	he unit of stress in S	I. unit is	2. Vasco de Gama discovered the sea route to India	in
	N/m ²	2. kN/mm ²	15th century	
3.	N/mm ²	4. All of these	3. Edward Jenner discovered vaccination	
0. Ir	an automobile, the r	ower is transmitted from	4. Henry Cavendish discovered oxygen	
th	e gear box to the dif	ferential through	Marc Polo was a famous inventor who travelled Chin	0.0
1.	Knuckle join	2. Bevel gears	103. Lignite is a type of:	na
	Hooke's joint	4. Oldham's coupling	1 mouble 0 1 a	
		tor of safety is the ratio of:	5. manganese 2. sand 3. iron 4. coal	
1.	endurance limit to the	working street	104. Sir Issac Pitman was propounder of:	
2.	elastic limit to the worl	ring stress		
3.	elastic limit to the yield	ling point	0 1 111 1	
4	Youngs modulus to the	ultimate tensile strength	Trining Tress	
0.00	and another to tile	didinate tensue strength	5. Computer	

05. 7	he lin	e join	ing th	e place	es loca	ted at	the sa	me			s the r		f preva	alent c	urren	y in th	14	
h	height from sea level is called:								Mauryan Empire?									
1	1. Isobars 2. Longitudes							Pana			2, Tola							
3	. Latiti	udes		4	. Isople	ths				Kakni			4, I	Dinar				
5. Equator									5. None of these									
106. V	Vhich	of the	e follo	wing S	tates o	of Indi	a is m	ain	114. The imaginary line on the surface of the Earth which is parallel to 180° meridian is called:									
I	produc	er of	bauxit	e?				244										
1	1. Bihar 2. Gujarat							1. International Date Line										
3	3. Madh	ıya Pr	adesh	4	. Andhi	ra Prad	esh		Tropic of Cancer Requator									
ŧ	. All of	the al	oove					-										
107.	Which	of the	follov	ving ci	ties of	India	is fam	ous	4.	Prime	Meridi	an						
1	for tra	de of	diamor	nd?					5. None of these									
	L. Jaipu	ır		2	. Surat				115. T	he slee	pers u	sed by	India	n Raily	way on	railwa	1	
1	3. Mum	bai		4	. Bang	alore	M PLAT	-		acks i								
	5. None	of the	ese						1. Wooden sleeper 2. Steel sleeper									
108.	2010 C	comme	onweal	lth Ga	mes w	ill be	organi	ised		Cast s			4.	Iron sle	eper			
	in:										the abo	VP.				133		
	William	ed Sta	tes of A	merica									o evml	hal of:				
	2. Cana								116. Bow and Arrow is the symbol of:									
	3. Aust							All	1. Telugu Desam									
	4. Paki																	
	5. India		1(125-0)															
			our an	imals i	n the	nation	al emb	lem										
				e anir														
				irth an														
			ine ioc		2. Deer				Maurya dynasty?									
	1. Tige: 3. Bull				4. Bear		7/13	AL	1	. Ajatsa	atru		Chandragupta Maury					
			-		4. Dear			1		. Ashok			4.	Brihad	ratha			
	5. Leop		C-11-			ironlo	.40.	.2	5	. None	of thes	e						
			e rono	wing p	2. Na			**			gest p		r of ru	ber in	India	is:		
	1. Ar a		Classic.		TO SELECT ON THE SECOND		-		1. Kerala				2. Karnataka					
	3. Na+		377		4. Mg a	ma Ive			17		rashtra		4. Assam					
	5. Non							41										
111. How many times Gandhiji was elected the President of Indian National Congress?						the	5. Andhra Pradesh 119. Information is transmitted within cells by.											
			f India			235(2.27)	867		1. RNA				2. DNA					
	1. One				2. Two				0-1706-0-00-0				4. Mitochondria					
	3. Fou				4. Thre	e times	3		3. Ribosome 4. Mitochondria 5. None of these									
5. Eight times												law to t	Formo m	aamat	io?			
112.	112. Amir Khusro was the court poet of:						1000000		of the	ionow								
	1. Firoz Tughlaq 2. Sikandar Lodi					1. Nickel 2. Bismuth 3. Aluminium 4. Quartz												
3. Balban 4. Alauddin Khilji									4.	Quart	4							
5. None of these						1 , 6). None	of thes	e									
_		8.9	10	eldy !-	17-91-7	Marin			W-152		-		TO THE REAL PROPERTY.	-	andua.	OBS T		
115						n /45	AN	ISV	VEI	RS		Tank >						
olt.	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		
100	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		
100	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		
			67.2	68.1	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						88.3	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	0.00	03.1	20.1	OLL	UMIT	- Joine	Allena	8	-		

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

97.4

113.1 114.1 115.5 116.5 117.1 118.1 119.1 120.5