

31/217, 32/224, 36/227, 42/222, 43/223, 47/216, 52/225, 55/215, 56/218, 58/226, 65/228, 66/229, 67/221, 274

PAPER-II

DRAUGHTSMAN (CIVIL)/ DRAUGHTSMAN (MECHANIC)/ FITTER/ MACHINIST/ MACHINIST GRINDER/ MECH. AGRICULTURE MACHINERY/ MECH. MACHINE TOOL MAINTENANCE/ MECH. MOTOR VEHICLE/ MECHANIC (REFRIGERATION & AIR-CONDITIONER) / OPERATOR ADVANCE MACHINE TOOL/ TOOL & DIE MAKER (DIES & MOULDS)/ TOOL & DIE MAKER (PRESS, TOOLS, JIGS & FIXTURE)/ TURNER/ REFRACTORY TECHNICIAN (WORKSHOP CALCULATION AND SCIENCE)

SEMESTER - IV

Note:	This paper carri	rry equal marks. ies negative marking.	25% marks will be d	MARKS: 75
Choos	se the correct answ	wer.		
*	What is the correctal 22/7	b) 7/22	c) 3.4	d) 3/4
2. +	The outer diameter a) 62.8 m <sup>2</sup>	er of a pipe is 100cm, a b) 628.32 mm <sup>2</sup>	and then the outer circu c) 6283.2 m <sup>2</sup>	mferences will be d) 628.32 cm <sup>2</sup>
* ,	The pressure is giva) Force/ Area	b) Area/ Force	c) Stress/ Strain	d) Strain/ Stress
*	2.5 tonnes can be a) 250 kg	expressed in kg as b) 25 kN	c) 250 N	<b>⋬</b> 2500 kg
-	Tanθ is equal toa) Cosθ/ Sinθ c) Adjacent side/ F	Iypotenuse	Opposite/ Adjac d) Opposite/ Hypor	ent side tenuse
<b>*</b>	What is the correct a) 1100	value of $\frac{22}{7} \times 350 \times 2$ b) 1200	? c) 1800	₹2200
8	The area of an equi 27.7 mm <sup>2</sup>	ilateral triangle of side b) 27.7 cm <sup>2</sup>	8 mm is equal to c) 2.7 cm <sup>2</sup>	d) 88 mm <sup>2</sup>
8	The area of a half c $\frac{\pi r^2}{4}$	ircle, with radius r, is b) πr <sup>2</sup>	given by	W. III <sup>2</sup>

Contd...2/- -

## 17/B/C/S-4/4/E

-2-

31/217, 32/224, 36/227, 42/222, 43/223, 47/216, 52/225, 55/215, 56/218, 58/226, 65/228, 66/229, 67/221, 274

9.		100°C can be written as					
		a) 100 F	b) 212 F	c) 36 F	d) 222 F		
No.		Mass/ Volume, refer	rs to				
D	6	a) Specific gravity	Density	c) Young modulus	d) Bulk modulus		
11.		What is the appropri	ate SI unit for distance	?			
		a) Centimeters	b) Inches	c) Meters	d) Kilometres		
12.			rial is defined as being	<u>.                                    </u>			
		a) An element c) Synonymous with "Solution"		b) Any material with uniform composition     d) More than one of these			
1				d) More than one of	tnese		
13.	y0	One horse power is a	equal to	4			
		a) 475 W	b) 1000 W	cg 746 W	d) 876 W		
A.			nal angle of a triangle				
	-	a) 90	<b>(b)</b> 180	c) 360	d) 270		
15.		1 Gallon is equal to a) 3.785	litres.				
	×	a) 3.785	b) 3	c) 4	d) 5.5		
16.		Brass is an alloy of _					
		a) Copper and Zinc		b) Bronze and Iron			
		c) Iron and Steel		d) Aluminium and Copper			
17.		110 F can be written	as°C.				
		a) 37	b) 40	c) 43.33	d) 27		
18.		A 50 cm radius and 250 cm height cylinder is melted to for a square cube, what will be					
		the side of the cube s					
		a) 100 cm	b) 125 cm	c) 150 cm	d) 200 cm		
10.		If the value of $\tan \theta =$	1, then the value of co	osθ will be			
0	F	a) 1	100	c) 1/2	d) 1/√2		
26			0		1 miles		
20.		One sq.m is equal to					
	D.	a) 100	b) 1000	© 10000	d) 10		
21.		The formula (Force	Displacement)/ Time	, refers to .			
	x		b) Energy	c) Time	d) Work		
22		An object can store e	energy as the result of i	ts position. This stored	energy of position is		
4		referred to as		as position. This stored	onergy or position is		
	- (	Potential energy	b) Kinetic energy	(A) Mechanical energy			
					Contd3/-		

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17/B/C/S-4/4/E

-3

31/217, 32/224, 36/227, 42/222, 43/223, 47/216, 52/225, 55/215, 56/218, 58/226, 65/228, 66/229, 67/221, 274

	29.	The unit of vo	lume is	c) cusec	d) m	_
	24.	Length, Mass and Time are known as a) Fundamental quantities c) Similitude		b) Derived quantities d) SI Unit		
*	25.	Surface area of a) πDH	f a cylinder is b) πD	_· c) πH	d) DH	

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