

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

TIME	E: 3 HRS.			MARKS: 75			
Note:	Attempt all questions. All questions carry equal marks. This paper carries negative marking. 25% marks will be deducted for each wrong answer.						
Choos	se the correct answ	er.					
1.	What is the correct a) 22/7	t value of π? b) 7/22	c) 3.4	d) 3/4			
2.	The outer diameter a) 62.8 m ²	of a pipe is 100cm, as b) 628.32 mm ²	nd then the outer circur c) 6283.2 m ²	nferences will be d) 628.32 cm ²			
3.	The pressure is giv a) Force/ Area		c) Stress/ Strain	d) Strain/ Stress			
4.		expressed in kg as b) 25 kN	c) 250 N	d) 2500 kg			
5.	Tanθ is equal to a) Cosθ/ Sinθ c) Adjacent side/ Hypotenuse			b) Opposite/ Adjacent side d) Opposite/ Hypotenuse			
6.	What is the correct	value of $\frac{22}{7}$ x 350 x 2	?				
	a) 1100	b) 1200	c) 1800	d) 2200			
7.	The area of an equia) 27.7 mm ²	lateral triangle of side b) 27.7 cm ²	8 mm is equal to c) 2.7 cm ²	 d) 88 mm ²			
3.	The area of a half circle, with radius r, is given by						
	a) $\frac{\pi r^2}{4}$	b) πr^2	c) $\frac{\pi r^2}{8}$	d) $\frac{\pi r^2}{2}$			
				Contd2/-			





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9.	100° C can be yy	ritten as		0772219274		
	100 C CAN DC WI					
	a) 100 F	b) 212 F	c) 36 F	d) 222 F		
10.	Magg/Valarra	C				
10.		eiers to				
	a) Specific gravity	y b) Density	c) Young modulus	d) Bulk modulus		
11	7771					
11.	and orbito	priate SI unit for dista	nce?			
	a) Centimeters	b) Inches	c) Meters	d) Kilometres		
10				a) itilollicues		
12.	Band to material is defined as being					
	a) An element			h uniform composition		
	c) Synonymous w	ith "Solution"	d) More than one of	f those		
			a) whose than one of	uiese		
13.	One horse power i	is equal to				
	a) 475 W	b) 1000 W	c) 746 W	1) 976 77		
				d) 876 W		
14. The sum of the internal angle of a triangle is degree.						
	a) 90	b) 180	c) 360			
		5) 200	c) 300	d) 270		
15.	1 Gallon is equal to	o litres.				
	a) 3.785	b) 3	c) 4	1) 5 5		
		0) 3	C) 4	d) 5.5		
16.	Brass is an alloy of	f				
	a) Copper and Zinc		b) Bronze and Iron			
	c) Iron and Steel					
) = === ===============================		d) Aluminium and C	opper		
17.	110 F can be writte	en as °C.				
	a) 37	b) 40	10.00			
	a) 51	0) 40	c) 43.33	d) 27		
18.	A 50 am no diam - 1	1070 1 1 1				
10.	A 30 cm radius and	A 50 cm radius and 250 cm height cylinder is melted to for a square cube, what will be				
	the stac of the cube	so formed?	_	,		
	a) 100 cm	b) 125 cm	c) 150 cm	d) 200 cm		
				a) 200 om		
19.	If the value of $tan\theta$:	= 1, then the value of	cosA will be			
	a) 1	b) 0				
	/ -	0) 0	c) 1/2	d) 1/√2		
20.	One sq.m is equal to					
20.	a) 100					
	a) 100	b) 1000	c) 10000	d) 10		
0.1				,		
21.	The formula (Force:	x Displacement)/ Tim	e, refers to			
	a) Power	b) Energy	c) Time	d) Work		
		, 0,	-)	u) WOIK		
22.	An object can store	energy as the regult of	its position. This stored	0		
	referred to as		its position. This stored	energy of position is		
	a) Potential energy	h) Vinotia	116 1			
	a, I ownian chergy	b) Kinetic energy	c) Mechanical energy	d) Work		
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23.	The unit of volume i a) Sq.m	b) cu.m	c) cusec	d) m
24.	Length, Mass and Time are known asa) Fundamental quantities c) Similitude		b) Derived quantities d) SI Unit	
25.	Surface area of a cylia a) πDH	inder is b) πD	с) πН	d) DH

