

## PAPER-II WORKSHOP CALCULATION & SCIENCE & ENGINEERING DRAWING **SEMESTER-I** (MORNING SESSION) $(10^{th}\,\text{PASS}\;\text{TWO}\;\text{YEAR}\;\text{TRADES})$

TIME:	3 HRS.	MARKS:	150

Note: This paper contains two parts - Part A & Part B.

Attempt all the questions. All questions carry equal marks.

PART - A (WORKSHOP CALCULATION & SCIENCE) (Marks: 75)

## Choose the correct answers:

1.	$0.1 \times 0.01 =$					
	a) 0.1		b) 0.01			
	c) 0.001		d) 0.0001			

2. If the volume of pure water is given as 62 m<sup>3</sup> and its mass as 62000 kg, then the density =

a) 100 kg m <sup>-3</sup>	b) 10 kg m <sup>-3</sup>
c) 1000 kg m <sup>-3</sup>	d) $1 \times 10^{-3}$

3. The perimeter of rectangle is 320m, its sides are in the ratio of 5:3 then its area is –

a)  $6000 \text{ m}^2$ b)  $3000 \text{ m}^2$ c) 12000 m<sup>2</sup> d) 24000 m<sup>2</sup>

4. A Force due to pull of gravity is known as

a) Weight

b) Force c) Mass d) None of these

5. The unit of energy in SI system is -

a) Joule

b) Calorie

c) Erg

d) Electron volt

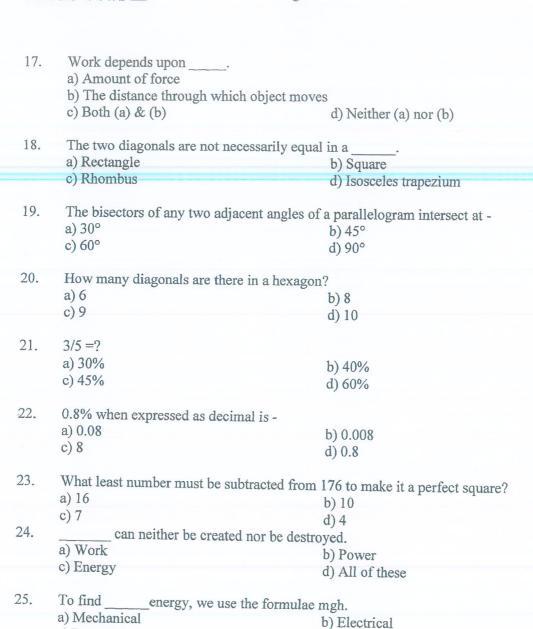
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6.	The weight of cube material of 14 cm star a) 21.4 kg c) 44.4 kg	ide and whose density is 7.8gms/cc i b) 25.4 kg d) 34.4 kg	s –
7.	Find the ratio of 90 cm to 15 m. a) 3:50 c) 6:1	b) 5:3 d) None of these	
8.	The example of potential energy is – a) Blowing wind c) Flowing water	b) Rotating wheel d) Water in over head tank	
9.	Parentage of kind of fraction whose den a) 0 c) 10	ominator is always – b) 1 d) 100	
10.	12846x593+12846x407= () a) 24064000 c) 24038606	b) 12846000 d) 24203706	
11.	$\frac{26}{\sqrt{x}} = 2$ a) 196 c) 125	b) 169 d) 225	
12.	If $250/\sqrt{x} = 10$ . Find the value of x. a) $6250$ c) $625$	b) 2506 d) 256	
13.	Compare the ratios 2:3 & 4:7. a) 2:3 < 4:7 c) 2:3 = 4:7	b) 2:3 > 4:7 d) None of these	
14.	342197 x 9999= a) 3221627803 c) 3421627803	b) 3521627803 d) 3321627803	
15.	If the side of a square is increased by 259 a) 56.25 c) 125	b) 50 d) 156.25	%.
16.	When we apply force on any object, it cha) Nothing c) Effort	anges its position, we say that b) Work d) None of these	is done.

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c) Potential



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d) Kinetic

