

17/A/C/S-1/4/E

WS

PAPER-II

WORKSHOP CALCULATION & SCIENCE & ENGINEERING DRAWING SEMESTER-I

(MORNING SESSION) 10th PASS

TIME: 3 HRS.

MARKS: 150

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

Attempt all the questions.

All questions carry equal marks.

This paper carries negative marking. 25% marks will be deducted for each wrong

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

Choose the correct answers:

- 0.125 inch =
 - a) 3.2 mm
- b) 3.15 mm
- c) 3.175 mm
- d) None of these
- The value of "a:c" from the following proportion a:b=2:3 and b:c = 4:5 is
 - n) 5:8
- b) 8:5
- c) 4:3
- d) None of these
- Which among the following is a greater fraction 15/28 or 37/64-3.
 - a) 37/64
- b) 15/28
- c) Both are equal
- d) None of these
- In a 90 kg non-ferrous easting containing Copper, Tin and Zinc in the ratio of 6:3:1, the weight of copper is
 - a) 27 kg
- b) 9 kg
- c) 54 kg
- d) None of these
- A 100 meters long rope is cut in two parts, so that one part is 2/5 th of the total length. then length of the two parts separately is
 - a) 20m & 50m
- b) 40m & 60m
- c) 30m & 70m
- d) 50m & 50m

- 6. The value of 0.1 x 0.01 is
 - a) 0.1
- 6) 0.01
- c) 0.001
- d) None of these
- The weight of a 1560cc stainless steel part having specific gravity 7.60 is-7.
 - a) 118.56 Kg
- b) 11856 grams.
- c) 1.1856 Kg
- d) None of these
- The value of "X" in the following ratio X:4 = 9:6 is
 - a) 2.66
- b) 13.5
- c) 6-
- d) 2.166

Contd...2/-

0	Multiple 25 V 2/7-			
9.	Multiply 25 X 3/7+ a) 75/175	b) 28/7	c) 3/175	.d) 75/7
10.	Property of material which allows it to be drawn out into wires is-			
	a) Ductility	b) Solderability		d) Conductivity
11.	One of the physical properties of material is-			
	a) Latent heat	b) Porosity	c) Elasticity	d) Acidity
12.	Value of- 0.05 + 5.252 - 0.101 + 1.005 is equal to-			
	a) 6.206	b) 6.208	c) 6.452	d) 6.675
13.	Product 2 1/2 X 3 1/5 is equal to-			
	a) 6.5	h) 7.75	c) 8.75	d) 9
14.	Four pieces of 20 kg each & 2 pieces of 25 kg each are moulded from cast iron and if 12% of cast iron is wasted the total cast iron required is-			
	a) 150 kg	b) 1477.3 kg	c) 147.73 kg	d) 130 kg
15.	X% of x is the same as 10% of-			
	a) <u>x</u> 10	b) x ²	10	d) None of these
16.	A 250 meters long train will cross an electric pole with a speed of 50/4 meters/sec in-			
	a) 5 seconds		c) 20 seconds	
17.	The initial velocity of a stone thrown vertically upwards to reach a height of 10 meters is-			
	a) 4.427 meters/sec		b) 14 meters/sec	
	c) 4.472 meters/sec		d) 196 meters/sec	
18.	Shape, size are belongs to which type of properties of the material-			
	a) Thermal	b) Magnetic	c) Physical-	d) Chemical
19.	Copper is an example for metal-			
	a) Alloy metal		b) Non Ferrous me	ctal:
	c) Ferrous metal		d) Non metal	
20.	A piece of wood having 80cc volume when floated on water, remains 60cc volume above water then density of wood is-			
	a) 1.75 grams/cc		e) 0.25 grams/cc	d) 1.55 grams/cc



- 21. √529 =
 - a) 19 b) 13
- d) 33
- 22. A mass of 3 grams is moving with a constant velocity of 4m/sec, its kinetic energy is
 - a) 24 ergs
- b) 24 joules
- c) 24 dynes
- d) None of these
- The potential energy of a body whose mass is 5 Kg is kept on a pole of height 20 meter
 - a) 9.8 joules
- b) 980 joules c) 100 joules
- d) None of these
- If a 80 meters long train passes a railway station platform of 120 meters length in 10 24. seconds, then its speed is
 - a) 10 meters/sec
- b) 12 meters/sec
- c) 20 meters/sec
- d) 8 meters/sec
- When Rs 1500 is divided among 3 persons in the ratio of 3:4:8, then the share of the three 25. persons is
 - a) 800, 200 & 500
- b) 400, 300 & 800 c) 300, 400 & 800
- d) 800, 400 & 300