



PAPER-II WORKSHOP CALCULATION & SCIENCE & ENGINEERING DRAWING SEMESTER-I (MORNING SESSION) (10th PASS TWO YEAR 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.

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

PART - A (WORKSHOP CALCULATION & SCIENCE)

(Marks: 75)

Choose the correct answers:

1.	0.2 Kg = a) 200 gram	b) 20 gram	c) 2 gram	d) None of these	
2.	The number $\frac{1}{3} \times \frac{1}{2} \div \frac{1}{3}$ a) 1	is equal to – b) $\frac{1}{2}$	c) 2	d) $\frac{1}{4}$	
3.	One gallon is equal to a) 4.1 litre	b) 4.24 litre	s. c) 4.50 litre	d) 4.54 litre	
4.	Reciprocal of -5 is – a) $\frac{-1}{5}$	1 5	c) +5	s) 1	
5.	Sum of Number $\frac{7}{12}$ & a) $\frac{-7}{48}$	$\frac{-5}{16}$ is equal to – b) $\frac{-11}{30}$	c) $\frac{13}{48}$	d) $\frac{1}{3}$	
6.	The quantity of matter of a substance contains is termed as – a) Weight b) Density c) Relative density d) Mass				
7.	Sum of 2.012 and 201 a) 203.32		c) 201.32	d) 203.212	



8.	127 cm is equivalent a) 5 inches	to – b) 50 inches	c) 500 inches	d) None of these		
9.	Find the weight of a (a) 21.4 kg	cube of M.S. of 14cm s b) 2.14 kg	side with its density be c) 0.214 kg			
10.	0.3 litre is equal to – a) 300 ml		c) 25 ml	d) None of these		
11.	1 m³ is equivalent to a) 10 litres		c) 1000 litres	d) None of these		
12.	25.4 mm is equal to -a) 10 inch		c) 1 inch	d) None of these		
13.	In a 90 kg weighting non ferrous casting containing Cu, Tin & Zn in the ratio of 6:3:1,					
	the weight of copper a) 27 kg	is – b) 9 kg	c) 54 kg	d) None of these		
14.	A 100 metres long rope is cut into two parts so that one part is $\frac{2}{5}$ th of total length, len					
	of two parts separated a) 20m, 50m	d are – b) 40m, 60m	c) 30m, 70m	d) 50m, 50m		
15.	Product of $2\frac{1}{2}$ and $3\frac{1}{2}$ and $3\frac{1}{2}$	$\frac{1}{2}$ is equal to – b) 7.75	c) 8.75	d) 8.125		
16.	If a pump can raise 1000 litres of water per minute to a height of 45 metres, then its horse					
	power of the pump is a) 9 HP		c) 24.3 HP	d) None of these		
17.	A car weighting 4000 kg travelling of 25 km/sec stops in 5 sec by decelerating uniformly, then its retardation is –					
	a) -2 km/sec ²	b) 5 km/sec ²	c) 8 km/sec ²	d) -8 km/sec^2		
18.	Which one among the a) 19^2	e following four values b) 82 ²	of squares ends with i d) 109^2	ts last digit six – d) 24 ²		
19.	The unit of energy in a) Erg	SI system is – b) Caloric	c) Joule	d) Volt		
20.	The unit of power is - a) Erg	b) kWH	c) kW	d) None of these		



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

24.

a) 23.814 kg





- 0° C is equal to a) 20° F 21. b) 25 ⁰F c) 32^{0} F d) 320^{0} F
- 22. The value of 'X' in the following ratio X: 4 = 9: 6 is – a) 2.66 b) 13.5 c) 6 d) 2.166
- If the area of a square plot is 2304 m², then the side of the square is 23. b) 48 meters a) 45 meters c) 47.9 meters d) 49.02 meters
- $0.1 \times 0.01 =$ a) 0.1 b) 0.01 c) 0.001 d) 0.00001 25. 52.5 lbs equivalent to -

b) 26.25 kg

c) 15.75 kg

d) 115.5 kg

