

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 $\frac{1}{3} \times \frac{1}{2} \div \frac{1}{3}$ is equal to –
 a) 1 b) $\frac{1}{2}$ c) 2 d) $\frac{1}{4}$
3. One gallon is equal to _____ litres.
 a) 4.1 litre b) 4.24 litre c) 4.50 litre d) 4.54 litre
4. Reciprocal of -5 is –
 a) $\frac{-1}{5}$ $\frac{1}{5}$ c) +5 s) 1
5. Sum of Number $\frac{7}{12}$ & $\frac{-5}{16}$ is equal to –
 a) $\frac{-7}{48}$ 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 201.2 is –
 a) 203.32 b) 203.032 c) 201.32 d) 203.212

8. 127 cm is equivalent to –
a) 5 inches b) 50 inches c) 500 inches d) None of these
9. Find the weight of a cube of M.S. of 14cm side with its density being 7.8 gm/cc.
a) 21.4 kg b) 2.14 kg c) 0.214 kg d) 1.528 kg
10. 0.3 litre is equal to –
a) 300 ml b) 3000 ml c) 25 ml d) None of these
11. 1 m^3 is equivalent to –
a) 10 litres b) 100 litres c) 1000 litres d) None of these
12. 25.4 mm is equal to –
a) 10 inch b) 0.01 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 is –
a) 27 kg 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, length of two parts separated are –
a) 20m, 50m b) 40m, 60m c) 30m, 70m d) 50m, 50m
15. Product of $2\frac{1}{2}$ and $3\frac{1}{2}$ is equal to –
a) 6.5 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 b) 10 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 following four values of squares ends with its last digit six –
a) 19^2 b) 82^2 c) 109^2 d) 24^2
19. The unit of energy in SI system is –
a) Erg b) Caloric c) Joule d) Volt
20. The unit of power is –
a) Erg b) kWh c) kW d) None of these

21. 0°C is equal to –
a) 20°F b) 25°F c) 32°F d) 320°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
23. If the area of a square plot is 2304 m^2 , then the side of the square is –
a) 45 meters b) 48 meters c) 47.9 meters d) 49.02 meters
24. $0.1 \times 0.01 =$
a) 0.1 b) 0.01 c) 0.001 d) 0.00001
25. 52.5 lbs equivalent to –
a) 23.814 kg b) 26.25 kg c) 15.75 kg d) 115.5 kg
