



PAPER-II

(WORKSHOP CALCULATION & SCIENCE AND ENGINEERING DRAWING) FOR THE TRADES WITH MINIMUM QUALIFICATION 10^{TH} PASS SEMESTER – I

TIME: 3 HRS.

Choose the correct answer:-

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)

1.	1000 liters is equivale a) 219.97 gallons		c) 250 gallons	d) None of these		
2.	52.5 lbs equivalent to a) 23.814 kg	b) 26.25 kg	c) 15.75 kg	d) 115.5 kg		
	The value of "X" in the a) 2.66	b) 13.5	c) 6	d) 2.166		
4.	If the area of a square a) 45 meters	plot is 2304 m ² , then t b) 48 meters	he side of the square is c) 47.9	d) 49.02		
5.	A force of one kg is u is a) 1 meter	sed to do the 10 kg me				
6.	25 square feet is equivalent to a) 2.3225 square meter c) 2.2525 square meter		b) 2.2323 square meter d) None of these			
7.	0.1 X 0.01 = a) 0.1	b) 0.01	c) 0.001	d) 0.0001		
8.	is .			tio of 5:3 then its area		
9.	a) 6000 Sq meters b) 3000 Sq meters c) 1200Sq meters d) 24000 Sq meters What will be the number of zeros in the square of the number 400? a) 2 b) 3 c) 4 d) None of these					
10.	The unit of energy in Sa) Erg	1) 6 1 1	c) Joule	d) Electron volt		



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11. The weight of	cube material of 14 cm si	ide and whose density is	7.8 gms/cc is .	
a) 21.4 kg	b)351 grams	c) 25.14 kg	d) 109.2 kg	
12. Ram scored 53 better	53 marks out of 700 and D	Deepu score 486 marks o	out of 600, who performed	
a) Ram	b) Deepu	c) Both performed equa	al d) None of these	
13. In a white met	al there are 20 parts tin, 3	parts copper and 2 parts	of antimony their	
percentages ar	e	1 11		
a) 80%, 20%		b) 60%, 20% and 2	20%	
c) 80%, 12%	and 8%	d) 80%, 10% and 10%		
14. The ratio of dis	stance covered to the time	is termed as		
a) Velocity	b) Speed	c) Acceleration	d) Retardation	
15. If a mass of 4k	g is dropped from a heigh	t of 100 meters, what is	its velocity when it	
touches the gro	-			
a) 44.27 meter		b) 31.30 meters/sec		
c) 93.91 meter	's/sec	d) 125.21 meters/sec		
16. Simplify (-4)	/5 X 3/7 X 15/16 X (-14)/	9 is equal to		
a) ½	b) 14/35	c) 45/80	d) $-\frac{1}{2}$	
17. The length, bre	adth and the height of the	petrol tank are in the pr	oportion of 8:5:2 and if	
the height is 25	cms then its volume is		oportion of o . 5 . 2 and fi	
a) 156250 cc		c) 1000 cc	d) None of these	
18. If the weight of	a substance is 150 grams	and its density is 6, ther	its volume	
1S		3		
a) 900 cc	b) 25 cc	c) 40 cc	d) 0.04 cc	
19. An automobile	factory produces 480 vehi	cles per month and if the	e out put is increased by	
15%, what is the	e increased out put?			
a) 528 nos.	b) 552 nos.	c) 540 nos.	d) 555 nos.	
20. Normal tempera	ture of the human body is	98.4°F. If it is expresse	d in ⁰ C, it is equivalent	
to a) 38 ⁰ C	b) 32 ⁰ C	-) 26 000	1) 4000	
a) 50 C	0) 32 C	c) 36.8 ⁰ C	d) 40 ⁰ C	
21. A gun metal we	eighing 5 kg consists of 2 pper and zinc contents are	20 parts of copper, 3 pa	arts of tin and 2 parts of	
a) 4 kg of copp	er and 0.4 kg of zinc		d 0 6 lea of -i	
	er and 0.5 kg of zinc	b) 4 kg of copper and d) 4 kg of copper and		
22. The square root	of 0.09 is			
a) 0.03	b) 0.3	c) 0.003	d) 3.0	



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	Which number one among the following four numbers is to be subtracted from 1989 to get a perfect square?					
	a) 53	b) 36	c) 140	d) None of these		
	A piece of alloy we then the ratio of cop		consists of 60 grams	copper the remaining is zinc,		
	a) 3:4	b) 1 : 4	c) 3:1	d) 2:3		
25.	Which group of fractions is in descending order?					
	a) 2/3, 3/4, 5/8, 8/9		b) 5/8, 2/3, 3/4, 7/8			
	c) 2/3 3/4 5/6 5/8		d) 5/6 3/4 2/3 5/8			

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