

WS - 8TH PASS (One Year) 007/206, 009/214, 014/211, 018/202, 023/209, 026/213, 029/212, 268, 269, 270, 271 & 272

PAPER - II

(WORKSHOP CALCULATION & SCIENCE AND EMPLOYABILITY SKILLS) FOR THE TRADES WITH MINIMUM QUALIFICATION 8TH PASS ONE YEAR DURATION

(EVENING SESSION)

SEMESTER - II

CARPENTER, FOUNDRYMAN, FOUNDRYMAN TECHNICIAN,
MASON (BUILDING CONSTRUCTOR), MECHANIC TRACTOR, PLUMBER,
SHEET METAL WORKER, WELDER, WELDER (GMAW & GTAW),
WELDER PIPE, WELDER STRUCTURAL, WELDER (WELDING & INSPECTION),
WELDER (FABRICATION & FITTING)

TIME: 3 HRS.		MARKS: 125
	ontains two parts – Part A & Part B. he questions. All questions carry equal marks.	
PART	- A (WORKSHOP CALCULATION & SCIENCE)	(MARKS: 75)
Choose the correct	answer:-	
1. Area of a circ a. πr^2 b. $\pi d^2/4$	le is given by c. Both (a) δ d. $\pi d^2/2$	& (b)
2. One side of a	rectangular field is 4 m and its diagonal is 5 m. the area	of the field is
a. 12 m ² b. 15 m ²		
3. The sides of a 42 m b. 82 m	triangle are 13m, 14m and 15 m. The perimeter of the t c. 84 m d. 142 m	riangle is
4. Determine th a. 15.5c b. 71.5c		
5. The height of a. 12 cm b. 15 cm		Contd 2/-

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6.	One inch =		
	a. 2.54 cm	c. Both (a) & (b)	
	b. 25.4 mm	d. 254 cm	
7.	Percentage is a kind of fraction whose denominator	-	
	a. 0	c. 10	
	b. 1	d. 100	
8	Reduce the ratio 72:18 in its simplest form		
0.	a. 4:1	c. 3:12	
	b. 1:4	d. 12:3	
	0, 2,1	u. 12.0	
9.	If the volume of two cubes are in the ratio 27:1, the	io of their edges is	
	a. 3:1	c. 3:5	
	b. 3:2	d. 3:7	
10.	66 cubic centimetre of silver is drawn into a wire of	mm in diameter. The length	of the
	wire in meter will be _		
	a. 76 m	c. 84 m	
	b. 80 m	d. 88 m	· · · · · · · · · · · · · · · · · · ·
11	(0.351 x 0.897+0.351 x 0.103)=		
11.	a. 8.97351	c. 3.518970	
	b. 0.351	d. 0.897	
	0. 0.331	u. 0.077	
12.	832 x 0.999=		
	a. 8.31168	c. 8.31618	
	b. 8.31668	d. 0.831168	
13.	Subtract 9.8103 from 10.01		
	a. 1.0197	c. 0.1997	
	b. 1.1197	d. 0.9197	
11	Charlie gold to be a lastic them with a		
14.	Steel is said to be elastic than rubber.	- Come or multipor	
	a. Moreb. Less	c. Same as rubber	
	U. Less	d. None of these	
15	$-40^{\circ}C =$.		
15.	a. 40°F	c. 80°F	
	b40°F	d80°F	
	U4U I'	u 00 I'	
16	Unit of shear strain is		
20.	a. m	c. Rad	
	b. cm	d. No unit	
		Canal	A 2/



-3-

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17. Stress is a/an	
a. External force	c. Axial force
b. Internal resistive force	d. Radial force
18. The device used for measuring temperature is	
a. Thermometer	c. Anemometer
b. Ammeter	d. Ammeter
19. The normal temperature of Human body is	
a. 40 °C	c. 42 °C
b. 37 °C	d. 35 ° C
20. The liquid used in a Thermometer is	
a. Mercury	c. Gold
b. Silver	d. Copper
21. The process by which heat flows from the hot	ter end to colder end of an object is called
a. Conduction	c. Radiation
b. Convection	d. Vaporisation
22 As temperature increases, what happens to the	ourrant corrying shility of a wire?
22. As temperature increases, what happens to the	e current-carrying ability of a wire?
a. There is no change.	e current-carrying ability of a wire?
a. There is no change.b. The wire can carry more current	e current-carrying ability of a wire?
a. There is no change.b. The wire can carry more currentc. The wire can carry less current	e current-carrying ability of a wire?
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