18/A/C/S-1/WS-ED

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PAPER-II

(WORKSHOP CALCULATION & SCIENCE AND ENGINEERING DRAWING) 8TH PASSED ENTRY QUALIFICATION TRADES (SIX MONTH/ ONE YEAR DURATION) SEMESTER – I (EVENING SESSION)

EXCAVATOR OPERATOR, SANITARY HARDWARE FITTER, CARPENTER, FOUNDRYMAN, MASON (BUILDING CONSTRUCTOR), MECHANIC TRACTOR, PLUMBER, SHEET METAL WORKER, WELDER (GWAW & GTAW), WELDER PIPE, WELDER STRUCTURAL, WELDER (WELDING & INSPECTION), WELDER (FABRICATION & FITTING)

	Attempt all the q	ins two parts – Part uestions. All question es negative marking.	ns carry equal mark	s. e deducted for each wronş	
· · · · · · · · · · · · · · · · · · ·	PART – A	(WORKSHOP CAL	CULATION & SCI	ENCE) (MARKS: 75)	
Cho	oose the correct answ	ver:-			
	The basic unit of ra) Pound	nass in S.I system is _ b) Kilogram	c) Quintal	d) Gram	
	The fraction $33\frac{1}{3}$ i	s equivalent to b) 33.11		I) 22 222	
				d) 33.333	
	In CGS system, th a) Newton	e unit of force is b) Pound	c) Dyne	d) Kilogram	
	When a substance is immersed in a liquid, its mass a) Decreases b) Increases c) Is not affected d) Becomes equal to its weight				
	If 0.625 is express a) $\frac{5}{8}$	ed as a simple fraction b) $\frac{6}{8}$	n is c) $\frac{5}{6}$	d) $\frac{6}{5}$	
	A 100 meters long rope is cut into 2 parts, so that one part is 2/5 th of the total length. Length of the two parts in separately is a) 20m, 50m b) 40m, 60m e) 30, 70m d) 50m, 50m				
	a) 20m, 50m	b) 40m, 60m	e) 30, 70m	d) 50m, 50m Contd2/	
				O Mitalian	



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7.	The weight of a substance is given by the formula: -					
	a) Mass X gravitational pull		b) Mass Gravitational pull			
	c) Gravitational pull Mass		d) Mass x gravitation	al pull x 2		
8.	Bronze is an alloy of a) Copper, Tin and Lead c) Copper and Zinc		b) Copper and Tin d) Copper, Tin and Zinc			
9.	If a person's salary earnings he saves is a) 20%	is Rs. 450 and he sav	es Rs. 90 every month. The percentage of his c) 40% d) 15%			
10			c) 40%	d) 15%		
10.	Density is calculated Mass	by the formula. Mass	Mass			
	a) $\frac{\text{Mass}}{\text{Volume}}$	b) Mass Unit Volume	c) $\frac{\text{Mass}}{\text{Weight}}$	d) None of these		
11.	If $4\frac{2}{5}$ kg of biscuits is to be packed in packets and each packet will weigh $\frac{2}{10}$ kg of biscuits. The number of packets formed will be					
	a) 44 packets	b) 10 packets	c) 22 packets	d) 16 packets		
12.	Plain steel has the fo a) Carbon and Tungs c) Iron and Tungsten		b) Iron and Carbon d) Nickel and Iron			
13.	The result after simp a) 0	lification of the follow b) 4	ing equation 13 - [-2-{ c) 8	30-(5) ² + (4/2}] is: - d) 22		
14.	Which of these is a na) Aluminum	on-conductor? b) Rubber	c) Steel	d) Solder		
15.	Which of the following a) 6:8::5:15	ng are in proportion? b) 3:7 :: 2:7	c) 10:21 :: 4:8.4	d) None of these		
16.	Pure tin is obtained fi a) Galvanization c) Electrolysis	rom its ore tin stone by	the process of b) Smelting d) Electromagnetic se	eparation		
17.	A boy rides a cycle at a speed of $1\frac{3}{2}$ km per hour. How far will he go at the same speed					
	in $3\frac{2}{10}$ hours.					
	a) 8 km	b) 40 km	c) $\frac{9}{10}$ km	d) $\frac{32}{5}$ km		
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18.	The property of a me temperature is called a) Malleability	etal by which a metal to b) Fusibility	urns into a liquid after l	being heated to certain d) Elasticity			
19.	mixture of 22,000 cc	to Acetylene in a mixtoris b) 12000 cc		gen present in the d) Not known			
20.	a) The point of pull at which a metal breaks b) The point at which metal acquires elasticity c) The temperature at which metal turns to liquid d) None of these						
21.	The melting point of a) High	non-ferrous metals is _b) Low	c) Medium	d) Very high			
22.	80° C = a) 180° F	b) 178° F	c) 176° F	d) 190° F			
23.	This is the property ba) Brittleness	by which a metal can be b) Ductility	e forged to sheets with c) Malleability	out heating: - d) Tenacity			
24.	The product of 4 1/5 m x 5 1/8 m, expresse a) 215.25 sq decimeters c) 2152.5 sq decimeters		d in sq decimeters is b) 21.525 sq decimeters d) 21525 sq decimeters				
25.	A picture projected on a screen is 15 times the actual size. If the projected image is 143.56 cm, the actual size of the image is						
	a) 0.95 cm	b) 9.570 cm	c) 9.670 cm	d) 9.650 cm			

Contd...4/-

