

WS/ED - 8<sup>TH</sup> PASS 002, 005, 007/206, 009/214, 014/211, 018/202, 023/209, 026/213, 029/212, 059, 070/232, 268, 269, 270, 271 & 272

# PAPER – II (WORKSHOP CALCULATION & SCIENCE AND ENGINEERING DRAWING) FOR THE TRADES WITH MINIMUM QUALIFICATION 8<sup>TH</sup> PASS SEMESTER – I

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

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 answer:-

1.	0.02 Kg = a) 200 grams	b) 20 grams	c) 2 grams	d) None of these
2.	One kWh is equal to a) 4.2 mega joules	b) 3.6 mega joules	c) 0.42 kilo joules	d) 33,000 joules
3.	The number 1/3 x 1/2 a) 1	2 ÷ 1/3 is equal to b) 1/2	c) 2	d) 1/4
4.	Sum of 2123 + 2414 a) 4735	is equal to b) 4468	c) 4537	c) 4564
5.	1 Kilometer is equal to a) 0.622 miles	b) 0.633 miles	c) 0.602 miles	d) None of these
6.		reciprocal of 9/16 is eq b) 27/52		d) 54/104
7.	One gallon is equal to a) 4.1 litres		c) 4.50 litres	d) 4.54 litres



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8.	distance betw		4 and 5,	the correct tim			
	a) 4.10		b) 4.20		c) 4.22	d) 4.24	
9.	Reciprocal of a) - 1/5	-5 is -	b) 1/5		c) +5	d) 1	
10.	If a man have gain 25%?	to sell a	a watch f	for Rs. 720, he	would lose 25%. Wha	at must he sell it for, to	
	a) Rs,1,200		b) Rs. 9	960	c) Rs.1,000	d) Rs.900	
11.	Sum of 2.012 a) 203.32		e are - b) 203.0	032	c) 201.32	d) 203.212	
12.	Choose the coa) 0.1	orrect of	the mul	tiplication 0.1	x 0.001 is equal to - c) 0.001	d) 0.0001	
13.	A mile if repra) 1.1 km	esented	in neares b) 1.25		alent to - c) 1.4 km	d) 1.6 km	
14.	Sum of numb	er 7/12 a	and -5/16	is equal to -			
	a) -7/48		b) -11/3		c) 13/48	d) 1/3	
15.	Sum of $(7 + 3)$	) x 4 are	) -				
	a) $7x4 + 3x4$		b) 7+(3	x4)	c) 7+(3+4)	d) (7+3)+4	
16.	Ramulu watch clothes for 3/4				ed kabadi for 1 ½ hour	, and washed the	
	a) 2 ½ hour		b) 3 <sup>3</sup> / <sub>4</sub> 1		c) 4 ½ hours	d) 5 hours	
17.					3-month period. To fin 00, multiply R238 000		
	a) 1/20	Q	b) 1/5		c) ½	d) 1/10	
18.	Which group	of fracti	ons is in	descending or	der?		
	a) 2/3	3/4		8/9			
	b) 5/8	2/3	3/4	5/6			
	c) 2/3	3/4	5/6	5/8			
	d) 5/6	3/4	2/3	7/8			
10	W/h of man 1	al. a 1 . 1 . 1	L 1 (	-4-16-04			
19.	What number			icted from -3/5		1) 10/5	
	a) -7/5		b) 13/5		c) 7/5	d) -13/5	





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20.		and girls in a class are the number of girl are		total number of boys
	a) 56	b) 8	c) 40	d) 7
21.	The quantity of matt	er of a substance conta	ins is termed as -	
	a) Weight		c) Relative density	d) Mass
22.	_	nd smallest number 2/1	0, 9/20, 12/25, 27/50,	49/100 is -
	a) 0.34	b) 0.74	c) 0.78	d) 0.79
23.		in quantity of mercury	is 136 grams, and its d	lensity is 1.36 gm/cu
	cm, then its volume i			4) 4
	a) 10 cu cm	b) 136 cu cm	c) 1.36 cu cm	d) 1 cu cm
24.	Simplify (-4) / 5 x 3/	7 x 15/16 x (-14)/9 is 6	equal to -	
	a) 1/2	b) 14/35	c) 45/80	d) - 1/2
25.	Brass is an alloy of -			
	a) Copper & tin	b) Lead & tin	c) Copper & zinc	d) Copper & silver
				Contd4/-





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### PART – B (ENGINEERING DRAWING)

(MARKS: 75)

CHOUSE FIRE COLLECT AUSWELL	Choose	the	correct	answer:
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1.	The dimension figure	e for diameter of a circ	cle shoul	ld be -			
	<ul><li>a) Preceded by the sy</li><li>c) Preceded by the sy</li></ul>	rmbol "Φ"		b) Suffixed b d) Suffixed b			
2.	Extension arm used v	with engineering com	nass is to	facilitate -			
					larger o	diameter circles	
	<ul><li>a) To increase the gri</li><li>c) To adjust distance</li></ul>	between the legs		d) To increas	se the ac	ccuracy	
3.	To draw a smooth cu instrument -	rve of any nature, the	draught	sman will selec	ct the fo	llowing	
	a) Mini drafter	b) French curve		c) Eraser shie	eld	d) Template	
4.	A line intersects a cir segment inside the cir	_	does not	pass through t	he cent	re, the line	
	a) Quadrant	b) Sequent		c) Chord		d) Radial line	
5.	Hidden lines are reprained a) Thin lines			tted lines	d) An	y of these	
6.	In lettering while dra- capital letters.						
	a) Same height	b) <sup>3</sup> / <sub>4</sub> the height	c) 2/3	height	d) ½ ]	height	
7.	To "step-off a series of a) Compass	of equal distances" on b) Set square			_		
8.	The two recommenders a) Unidirectional & a c) Linear & oblique s	ligned system	b) Up	right & incline			
)	Parallel lines can be o	drawn with the help of	f				
	a) Mini drafter			nplate	d) Era	aser shield	
10.	Which of the following unless otherwise spec		ning state	ement? "All di	mensio	ns are in mm	
	a) Frames and border	s b) Title block	K	c) Items list	d) Re	vision table	
11.	In multi view projecti a) Horizontal line			n as - c) Reference	line	d) All of these	;





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12.	During operation a) 45°	of drafter, the two are b) 90°	ms of the drafter remain c) 180°	s at - d) 270°
13.	Visible lines and a) Thin lines	edges are drawn as - b) Thick lines	c) Dotted lines	d) Any of these
14.	To draw a pernen-	dicular from a given	point P on line XY name	,
	needle of the com a) P c) X or Y	passes should be place b)	ed first -  Any convenient point a  A point near the mid p	along XY
15.	Numbers of orient		contained by a drawing	
	a) One	b) Two	c) Three	d) Four
1.6.	The recommended frustum of a -	l symbol for indicatin	g the angle of projection	a shows two views of the
	a) Triangular pyra	mid b) Cone	c) Square pyramid	d) Any of these
17.	the end of the sh b) The perpendicul the end of the lo c) The perpendicul	ar disector of the long cortest line. ar bisector of the sho ngest line.	rtest line and the perpen	dicular line drawn from
18.	a) Constant	ers kept on drawing -	b) Varied as per siz	ze of the drawing
19.	c) Not known Projection of an ob a) Perspective	ject shown by three v b) Isometric	d) None of these iews is known as -	d) Orthographic
20.		ront view from the gi	ven orthographic views	d

d



#### 17/B/C/S-1/WS-ED



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21.	Which of t	he following is	size of A3 d	lrawing sheet?
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a) 594 x 841 mm

b) 420 x 594 mm

c) 297 mm x 420 mm

d) 210 x 297 mm

22. Which one of the following grades of pencils have hardest lead?

a) HB

b) H

c) B

d) F

23. Which one of the following is not served by the divider?

a) Divide lines or curves into a number of equal parts

b) Transfer measurement from one part of the drawing to another

c) Make full size, reduced size or enlarged size

d) Step off a series of equal distances on the drawing

24. A typical layout of a drawing sheet Do Not contain -

a) Centering mark

b) Orientation mark

c) Trimming mark

d) Identification

25. Chord AB is parallel to Chord CD in a circle, which of the following statement is true -

a) Arc length AC = Arc length BD

b) Arc length AB = Arc length CD

c) Length AB = length CD

d) Arc length ABD = Arc length CDB

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