

WS/ED - 8TH PASS 002, 005, 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 ENGINEERING DRAWING) FOR THE TRADES WITH MINIMUM QUALIFICATION 8TH PASS SIX MONTH / ONE YEAR DURATION SEMESTER – I

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

Note: This paper contains two parts – Part A & Part B.
Attempt all the questions. All questions carry equal marks.

PART – A (WORKSHOP CALCULATION & SCIENCE) (MARKS: 75)

Choose the correct answer:
1. Paper is a fiberous _____ material.

1.	Paper is a fiberous material.	
	a. Conducting	c. Insulating
	b. Semi conducting	d. None of these
2.	Muntz metal is a/ an	
	a. Metal	c. Alloy
	b. Ore	d. All of these
3.	To change density of kg/m ³ into g/cm ³ , we	e divide values with
	a. 100	c. 200
	b. 10	d. 1000
4.	Mass is a measure of	
	a. Weight	c. Friction
	b. Inertia	d. Matter
		d. Watter
5.	N is a unit of	
	a. Weight	c. Speed
	b. Mass	d. Time
		G. LIIIC

Contd...2/created with
nitro PDF profession

6. kg	g is a unit of		
	a. Weight		Resistance
	b. Density	d.	Mass
	cube-shaped block of pinewood has a surface area o	f9r	m^2 and a density of 0.5 g/cm ³ .
IVI	ass of the block =	0	13500 g
	a. 4500 g		13500 g 13500 kg
	b. 4500 kg	u.	15500 kg
8. If	x% of $\frac{2}{7}$ is $\frac{1}{35}$ then the value of x is -		
	a. 10	C.	20
	b. 15	d.	25
0 W	Thich are of the following is non-ferrous metal?		
J. VV	which one of the following is non ferrous metal? a. Brass	C	Aluminium
			All of these
	b. Copper	u.	All of these
10. D	ensity of a substance can be defined as		
	a. Density = Mass \times Volume	C.	Density = Volume/Mass
	b. Density = Mass/Volume	d.	None of these
11.50	0% can be written as		
	a. $\frac{100}{50}$	C	<u>5</u>
	50		6
			2
	b. $\frac{50}{100}$	d.	<u>2</u> 5
	100		
12 In	CGS system the unit of length is		
12.111	a. Meter	C	Inch
	b. Centimeter		Multimeter
	b. Centiliciei	CI.	Withineter
13. B	rittle material is also ductile		
	a. True	C.	Can not say
	b. False	d.	Unpredictable
14. Q	uantity of matter contained in a body is called		
	a. Density		Weight
	b. Mass	d.	Volume
15. W	Thich one of the following is ferrous metals?		No.
	a. Copper		Bronze
	b. Brass	d.	Low carbon steel
			Contd3/-

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

-3-

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

16 Which of any posting is 2 kg and weight of another	posting is 200 gram. Compare the
16. Weight of one casting is 2 kg and weight of another of	asting is 200 grain. Compare the
weight a. 1:10	c. 10:1
	d. 5:1
b. 1:5	d. 3.1
17 Unit of Intensity of magnetic induction field is	
17. Unit of Intensity of magnetic induction field is a. N/Am	c. wb/m ²
b. Tesla	d. All of these
U. Testa	d. All of these
18. 10 N=dynes.	
a. $\frac{10^2}{10^2}$ dynes.	c. 10^6
b. 10 ⁴	d. 10 ⁸
0. 10	d. 10
19. Sum of 1234 + 4321 is equal to	
a. 1234	c. 5555
b. 4441	d. 4321
0. 4441	u. 4321
20. 0.07x 0.008 =	
a. 0.56	c. 0.0056
b056	d. 0.00056
0030	d. 0.00030
21. Reciprocal of - 4	
a 1	-1
d 1	c. $\frac{-1}{4}$
b4	. 1
	d. $\frac{1}{4}$
22. 0.6 x 0.6 + 0.6/0.6 =	
a. 0.16	c. 0.42
b. 0.37	d. 0.46
0. 0.37	d. 0.40
23. $\sqrt{288}/\sqrt{128}$ =	
a. $\sqrt{3/2}$	c. 3/2
b. $3/\sqrt{2}$	d. None of these
0. 3/ NZ	d. None of these
24. Express ½% as a decimal.	
a. 0.5	c. 0.0005
b. 0.005	d. None of these
0. 0.003	d. Profile of these
25 45v = 25% of 000	
25. 45x = 25% of 900	2 4
a. 16.2	c. 4
b. 500	d. 5

4. **C-5**

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

PART - B (ENGINEERING DRAWING)

(MARKS: 75)

Cho	OS	e the co	rrect answer:		
	1.		ering drawing is a language of		
			Engineers		Business men
		b.	Traders	d.	None of these
	2.	ISO sta			
			International Organization for Standardization		
			Indian Standards Organization		
			Society of International Standards		
		d.	Society of Indian Standards		
	3.	. "Methods of Dimensioning and Tolerances in Technical Drawing" are given by IS: in India.			
		a.	10711-1983	C.	10714-1983
		b.	10713-1983	d.	10718-1983
	4.	Well se	asoned wood of is used for making of	of dra	awing boards.
			Pine		Oak
		b.	Fir	d.	All of these
	5.	To prev	ent wraping, the drawing board is made of		numbers of narrow strips.
		a.	2 to 3	C.	7 to 9
		b.	4 to 6	d.	None of these
	6	The sel	ection of drawing board for a particular use dep	ende	s upon the size of
	Ο.		T- square		Drawing sheet
			Project		All of these
		0.	Tiojeet	Ci.	7 III of these
	7.	Size 'D	2' of the drawing board refers to (1 x	WX	t) mm.
		a.	1500x 1000x 25	C.	700x 500x 15
		b.	1000x 700x 25	d.	500x 350x 15
	8	When r	not in use, T-Square be		
	0.		Left flat on drawing board	C	Left flat any where
			Left flat in almirah		None of these
		υ.	Late that the aminean	u.	ranic of these
	9.	T-Squa	re is used to drawlines.		
		a.	Only horizontal	C.	Both (a) & (b)
		b.	Only vertical		None of these



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

10. Which of the following grades of the woodena. 9 Hb. 9B	pencil is hardest? c. H d. F
11. A triangle having all its sides of different lenga. Scalene triangleb. Isosceles triangle	c. Equilateral triangle d. None of these
12. Which of the following edges of wood pencila. Cylindricalb. Conical	in preferred for use in compass c. Chisel d. Bevel
13. Area of A0 drawing sheet is - a. 841 cm ² b. 1189 cm ²	c. 1 m^2 d. 1.2 m^2
14. Generally the thickness of thick lines is a. 3 b. 2	times the thickness of the thin lines. c. 1.5 d. 2.5
15. A set square comprises of &set a. 30°-60°, 45° b. 30°-45°, 60°	c. 30°-75°°, 60° d. 30°-75, 45°
16. 297 x 420 (w x l) mm size drawing sheet is de a. A ₀ b. A ₂	c. A ₃ d. A ₄
17lettering is recommended by BIS for u a. Single stroke b. Double stroke	se in engineering drawing. c. Both (a) & (b) d. Neither (a) nor (b)
18. Which of the followings is an arrangement ofa. Chainb. Parallel	dimensioning? c. Super imposed running d. All of these
19. The size of title block of all sizes of drawing s a. 185, 65 b. 200, 100	sheet isx mm. c. 50, 120 d. 150, 75

Contd....6/-

-6



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

20. As per recommendations of IS: 11665- 1985, the RH side margin line of a drawing sheet for class work should be kept as		
a. 5 mm	c. 15 mm	
b. 10 mm	d. 20 mm	
0. 10 mm		
21. The ratio of the thick to the thin line shall not	be less than .	
a. 2:1	c. 3:1	
b. 1: 2	d. 1: 3	
0. 1.2	d. 1. 3	
22. The minimum spacing between parallel lines than the thickness of the thickest line.	including hatching lines should be greater	
a. Two lines	c. Four lines	
b. Three lines	d. None of these	
23. How many sides does a decagon have?		
a. 8	c. 6	
b. 10	d. None of these	
24. Minimum possible interior angle in a regular	polygon is	
a. 70 ⁶	c. 90°	
b. 60°	d. 120°	
. 00	di 120	
25. Maximum possible exterior angle in a regular	polygon is	
a. 70°	c. 90°	
b. 60°	d. 120°	

