



PAPER-II WORKSHOP CALCULATION & SCIENCE & ENGINEERING DRAWING SEMESTER-I (MORNING SESSION) (10th PASS TWO YEAR TRADES)

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 answers:

	0.2 Kg = a) 200 gram	b) 20 gram	c) 2 gram	d) None of these	
2.	The number $\frac{1}{3} \times \frac{1}{2} \div$ a) 1	$\frac{1}{3}$ is equal to $\frac{1}{2}$	c) 2	d) $\frac{1}{4}$	
3.	One gallon is equal tolitres.				
	a) 4.1 litre	b) 4.24 litre	c) 4.50 litre	d) 4.54 litre	
4.	Reciprocal of -5 is -a) $\frac{-1}{5}$	+ <u>1</u>	c) +5	s) 1	
5.	Sum of Number $\frac{7}{12}$ a) $\frac{-7}{48}$	$\frac{-5}{16}$ is equal to – b) $\frac{-11}{30}$	o) $\frac{13}{48}$	d) $\frac{1}{3}$	
6.	The quantity of mat a) Weight	ter of a substance con b) Density	tains is termed as – c) Relative density	d) Mass	
7.	Sum of 2.012 and 2 a) 203.32	01.2 is – b) 203.032	c) 201.32	d) 203.212	

8.	127 cm is equivaler a) 5 inches	t to – b) 50 inches	c) 500 inches	d) None of these
9.	Find the weight of a) 21.4 kg	a cube of M.S. of 14 b) 2.14 kg	cm side with its density c) 0.214 kg	being 7.8 gm/cc. d) 1.528 kg
10.	0.3 litre is equal to a) 300 ml	b) 3000 ml	c) 25 ml	d) None of these
11.	1 m³ is equivalent t a) 10 litres	o – b) 100 litres	c) 1000 litres	d) None of these
12.	25.4 mm is equal to a) 10 inch	b) 0.01 inch	c) 1 inch	d) None of these
13.			ng containing Cu, Tin	& Zn in the ratio of 6:3:1
	the weight of coppe a) 27 kg		c) 54 kg	d) None of these
14.	A 100 metres long of two parts separat a) 20m, 50m	ed are –	parts so that one part is	$\frac{2}{5}$ th of total length, length d) 50m, 50m
15.	Product of $2\frac{1}{2}$ and a) 6.5	$3\frac{1}{2}$ is equal to – b) 7.75	c) 8.75	d) 8.125
16.	If a pump can raise power of the pump a) 9 HP		per minute to a height of c) 24.3 HP	of 45 metres, then its horse d) None of these
17.	A car weighting 400	00 kg travelling of 25	5 km/sec stops in 5 sec	by decelerating uniformly
	then its retardation i a) -2 km/sec ²	b) 5 km/sec ²	c) 8 km/sec ²	d) -8 km/sec ²
18.	Which one among that a) 19 ²	ne following four val b) 82 ²	lues of squares ends wi d) 109 ²	th its last digit six – d) 24^2
19.	The unit of energy is a) Erg	n SI system is – b) Caloric	c) Joule	d) Volt
20.	The unit of power is a) Erg	b) kWH	o) kW	d) None of these

- 21. 0° C is equal to a) 20° F
- b) 25 °F
- c) 32 °F
- d) 320 °F
- 22. The value of 'X' in the following ratio X: 4 = 9: 6 is
 - a) 2.66
- b) 13.5
- c) 6

- d) 2.166
- 23. If the area of a square plot is 2304 m², then the side of the square is
 - a) 45 meters
- b) 48 meters
- c) 47.9 meters
- d) 49.02 meters

- 24. $0.1 \times 0.01 =$
 - a) 0.1
- b) 0.01
- c) 0.001
- d) 0.00001

- 25. 52.5 lbs equivalent to
 - a) 23.814 kg
- b) 26.25 kg
- c) 15.75 kg
- d) 115.5 kg



PAPER-II SEMESTER-I (MORNING SESSION) (10th PASS TWO YEAR TRADES)

	PART-B	ENGINEERING I	DRAWING)
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(Marks: 75)

Contd...2/-

Change	tha	commont	answers:
U 110086	me	correct	answers:

1. 2.	a) 37.5°	b) 40 ⁰ he following compass	is NOT possible to co	nstruct the angel of d) 67.5°	f —	
2.						
X		b) Large	c) Bow	rge circles? d) Drop		
3.	a) In a sentenceb) All alphabetsc) In a sentence	wing sheet should have only first alphabet in small letters only abbreviations in a in capital letters	capital letters			
4.	During operation a) 45 ⁰	on of drafter, the two a b) 90 ⁰	rms of the drafter rema	ins at – d) 270 ⁰		
5.	Which one of that a) Beam	ne following compass i b) Large	is used to draw SMAL c) Bow	L size circles? d) Drop		
6.	Which one of that a) HB	ne following pencil lea b) H	ds is the hardest?	d) F	Bi	
7.	To lay off an angle from a given line, wha higher accuracy – a) Centre mark and 0 marks only c) 0°, 180° and Centre marks		b) 0° and 180° r	th marks on the protractor should your align for b) 0° and 180° marks only d) 0°, 90° and 180° marks		
8.	Parallel lines can be drawn with the help of a) Mini drafter c) Pair of set squares		b) T square d) All of these	b) T square		
9.	To draw a perp needle of the cor a) At point P c) At point X or	mpass should be place	b) Any convenie	7, name the point ent point along Xy the mid point of PX		

10.						
	a) Bow compass b) Scale	c) Dividers	d) Extra leads			
11.	In engineering system of paper sizes, whi	ich of the following is	A2 size –			
	a) 841 mm x 1189 mm	b) 594 mm x 841 m	nm			
	c) 420 mm x 594 mm	d) 210 mm x 297 m	um			
12.	A title block contains all of the following information except –					
	a) Name and address of the company	b) Parts list				
	c) Drawing sheet size letter designation	d) Drawing number				
13.	Which of the following pairs of orthograp	phic views both show th	ne height dimension?			
	a) Left side and front	b) Top and Front				
	c) Top and Rear	d) Bottom and Righ	nt side			
14.	Centre line are drawn as -					
	a) Continuous narrow lines	b) Dashed narrow I	ines			
	c) Long dashed dotted narrow lines	d) Long dashed dou	ible dotted narrow lines			
15.	Projection of an object shown by three vie	ews is known as –				
	a) Perspective b) Isometric	c) Oblique	d) Orthographic			
16.	The type of pictorial projection generally	used by the architect is				
	a) Orthography b) Oblique	c) Perspective	d) Isometric			
17.	The recommended symbol for indicating	the angle of projection	shows two views of the			
	frustum of a —					
	a) Square pyramid	b) Triangular pyram	nid			
	c) Cone	d) Any of these				
8.	The projection in isometric view are -					
	a) Converging	b) Parallel to the pla	The state of the s			
	c) Diverging	d) Perpendicular to	the plane of projection			
9.	Which of the following purpose is NOT served by a divider?					
	a) Divide lines or curves into a number of equal parts					
	b) Transfer measurements from one part of the drawing to another part					
	c) Make full size, reduced size of enlarged size drawing					
	d) Set off a series of equal distances on the	e drawing				
0.	The inclination of letters as recommended		^			
	a) 75° b) 70°	c) 65 ⁰	d) 60 ⁰			



21. Two point perspective are drawn by -

- a) Single vanishing point method
- c) Triple vanishing point method
- b) Double vanishing point method
- d) All of these

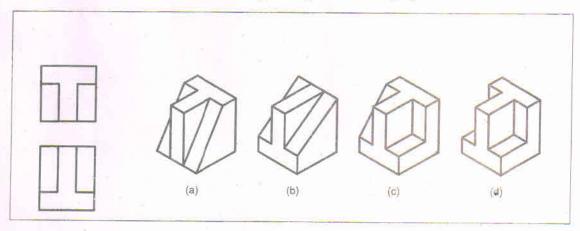
22. If a line intersects a circle at two points and does not pass through the centre this line segment is called as -

- a) Diameter
- b) Chord
- c) Radial line
- d) Quadrant

23. Methods of arrangement of dimensions includes -

- a) Parallel, continuous and combined
- b) Perpendicular, parallel and combined
- c) Perpendicular, continuous and combined
- d) Perpendicular, parallel and continuous

24. Select the correct isometric view corresponding to the orthographic views shown -



25. The thickness of the line of a letter with 14mm height in B type lettering is -

- a) 1 mm
- b) 1.5 mm
- c) 1.25 mm
- d) 2 mm
