8.	B.	Roll	No
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ENGINEERING DRAWING-I 1" Exam/Civil/ECE/IT/CSE/Auto/MACHATRONICS/7152/Nov/19 (FOR 2018 BATCH ONWARDS)

Durati	on: 4Hrs.	M.Marks:100
	SECTION-A	
	l in the blanks.	10x1.5=15
a.	A hidden object is shown by lines.	
b.	Length of arrow head is times the thickness of the line.	
C.	In 7:4 ratio letterings the height is taken as units.	
d.	Front view lies above H.P. in Quadrant.	
e.	Section lines are drawn at an angle of	
f.		
g.	When the ratio of drawing and object is less than 1:1 the scale is	
	Abbreviation R.F. represents	
	Front view of an object is shown in plane.	
j.	A plane which is at right angle to two principal planes is	
-	SECTION-B	
Q2. At	tempt any five questions. Assume missing dimensions.	5x7=35

- a. Draw symbols of first angle and third angle projection.
- b. Draw a plane scale to read meters and long enough to measure 80 meters. R.F. = 1/500. Show on it distance of 78 meters and 23 meters.
- c. Draw the plan elevation of a line 40mm long which is parallel to H.P. 25mm above it and inclined at 30° to the V.P. The left end is 15mm in front of it.
- d. Write in free hand vertical lettering "WORK IS WORSHIP" sentence taking size 10mm.
- e. Draw symbols representing Glass, Wood, Cast Iron, Liquid and Earth
- f. Explain the difference between isometric projection and isometric view.
- g. What is the difference between full section and half section view?

SECTION-C

Attempt any two questions.

2x25=50

Q3. Figure 1 shows pictorial view of an object. Draw front, side and top views in full scale in first angle projections.

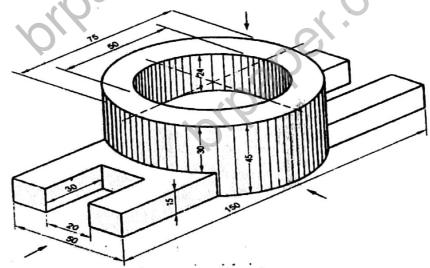
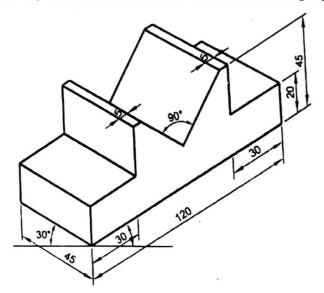


Figure 1



Q4. Draw top view, front view and side view of the following object in 1st angle projection.



Q5. Draw the isometric view of a cube 40mm side and on a square block 25mm thickness and 70 mm side. The cube and block are placed axially with their edges parallel to each other.

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S.B.	Roll No		
	ENGINEERING	DRAWING-I	
	1 st Exam/Common/26!		9
Dura	ation: 3Hrs.	,0,000,000	M.Marks:100
	SECTI	ON-A	
Q1.	Fill in the blanks.		10x1.5=15
	a. The height of capital letters is denoted by		
	b. Projection and dimension lines should not		
	c scale represents three units.		
	d. The ratio of drawing to the object is called		
	e. In fourth quadrant, front view and top view		
	f. Front view is projected on		
	g. Section lines are drawn at an angle of	,	
	h. Draw symbol of capacitance.	•	
	i. An object assumed to be situated in front V.P. a	nd above H.P. is in	quadrant.
	j. The radius of a circle is represented by	<u>-</u> ·	
	SECTI	ON-B	
Q2.	Attempt any five questions.		5x7=35
	i. Print "WORK IS WORSHIP" in single stroke vert		
	ii. A 3.2 cm long line represents a length of 4 meters		_
	and show on it units of meter and 5 meters. Sho		
	iii. Differentiate between Aligned system and unid		
	iv. P is 20 below HP & lies in III quadrant. Its shorte	st distance from xy is	40. Draw its projections.
	v. Draw the symbols for the following		
	a) Circuit Breaker b) Bell c) Earth		e) Urinal Floor
	vi. List the six different views in first angle projecti		
\	ii. Explain by making sketches the dimensioning te		
	dimensioning, (c) dimensioning of angles, (d) ed	ually spaced on P.C.D	D., (e) counter bore holes
			~0`
•	SECTI	ON-C	0
	empt any two questions.		2x25=50
Q3.	Figure 1 shows pictorial view of an object. Draw fro	ont, side and top view	is in full scale in first angle
•	projections.	- fall and a	
Q4.	Figure 2 shows pictorial view of an object. Draw th	e following	
	a. Sectional end view	00,	
	b. Front view	10	
05	c. Top view, in first angle projections.	oro of diameter 20	m at the centre of subs. The succession
Q5.	On the top of the cube of 30 mm edge, rests a sphere		
	of cube and sphere are in the same straight line. D	raw isometric view of	tne solia.



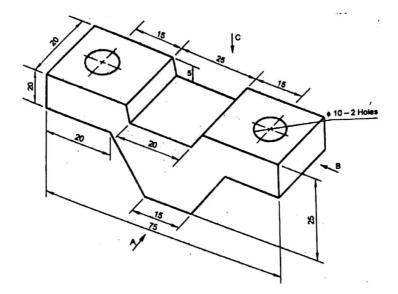


Figure 1

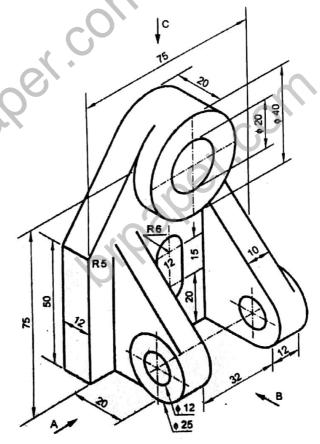


Figure 2

SΒ	Roll	No
.). D.	nun	INU

ENGINEERING DRAWING-II 2nd Exam/Common/2454/2551/5426/May'19

Duration: 3Hrs. M.Marks:100

SECTION-A

Q1. Do as directed. 10x1.5=15

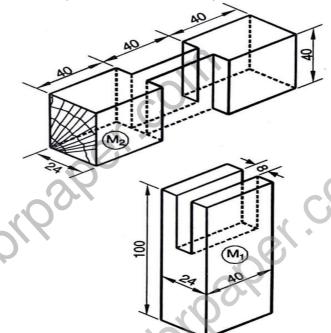
- a. A detailed drawing is one which describes a single part or several parts individually. (T/F)
- b. Caulking is the process to breakdown rivet joint.(T/F)
- c. The angle of American thread is 45°. (T/F)
- d. Knuckle joints are used in _____links.
- e. _____and ____are done to make the riveted joint airtight.
- f. For transmitting power in one direction _____thread is used.
- g. The angle of an ACME thread is _____degrees.
- h. _____bolt is used for lifting heavy machine.
- CAD stands for
- j. Rivets are made of _____materials.

SECTION-B

Q2. Attempt any three questions.

3x15=45

a. Following fig. shows the pictorial view of a Bridle joint. Draw the orthographic view of assembly.



- b. Draw in detail the following types of thread forms:
 - i) Square threads ii) Acme threads iii) B.S.W. threads
- c. Draw top, front and side view of hexagonal nut for a bolt of diameter equal to 24 mm.
- d. Draw any five types of riveting heads having 20mm diameter.
- e. Draw front view of castle nut taking diameter 20mm.

SECTION-C

Q3. Attempt any two questions.

2x20=40

- i. Draw orthographic view in 1st angle projection of hexagonal headed bolt with hexagonal nut and washer. Take diameter of bolt is 24mm.
- ii. Draw sectional front view and top view of a triple riveted lap joint (chain type). Take diameter of rivet as 18mm.
- iii. Draw front view of a protected type flange coupling used to connect two shafts of 25 mm. diameter.



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ENGINEERING DRAWING-I 1st Exam/Common/2655/0551/5405/May'19

Dura	ition: 3Hrs.	M.Marks:100
	SECTION-A	
Q1. F	Fill in the blanks.	10x1.5=15
a.	Size of trimmed drawing sheet of A ₂ designation is	
b.	letters have alphabets and numerals of uniform thickness.	
c.	Ratio of length and thickness of an arrow head in dimensioning is	<u>.</u>
d.	Length of scale = x maximum length to be measured.	
e.	Section lines are drawn at an angle of	
f.	Thin sections are entirely shown	
g.	An obtuse angle is than the right angle.	
h.	A circle in isometric projection appears as	
i.	In third angle projection top view is drawn the front - view.	
j.	Isometric length is about % of true length.	
	SECTION-B	
Q2. A	Answer the following:	
(A) D	Oraw the conventional representation/symbol for any five of the following:	10
Н	idden Line, Dimension Line, Short Break Line, Lead, Steel, Wood	
(B) V	Vrite the following sentence in free hand taking the height of letter as 8 mm.	15
IN	IDIA IS A SOVEREIGN SOCIALIST SECULAR DEMOCRATIC REPUBLIC	
	SECTION-C	
Q3. A	Attempt any two Questions.	
i.	Figure - 1 shows the pictorial view of an object in which various surfaces	are marked by different
	alphabets. Identify and mark the surfaces in the direction of arrows A,	B and C and name the
	views.	30
ii.	a) Explain the methods of Aligned and Unidirectional System of dimensional system of dim	sioning with the help of
	suitable figures.	10
	b) Draw a scale to show meters and decimeters, when 1 mm is represent	ented as 2.5 cm and the
	scale is long enough to measure to measure 5m. Find R.F. and indicate on	scale – 3 m 4 d m
	.00	20
iii.	Pictorial View of an object is shown in figure - 2.	
	Draw its (i) Sectional Front View (ii) Side View (iii) Top View	30
iv.	A cylindrical slab 75 mm in diameter and 45 mm thick is surmounted by	_
	On the top of a cube, rests a square pyramid, altitude 40 mm and side	25 mm. The axes of the
	solids are in the same straight line. Draw isometric projections of the sol	ids placed as mentioned
	above (use isometric scale).	30



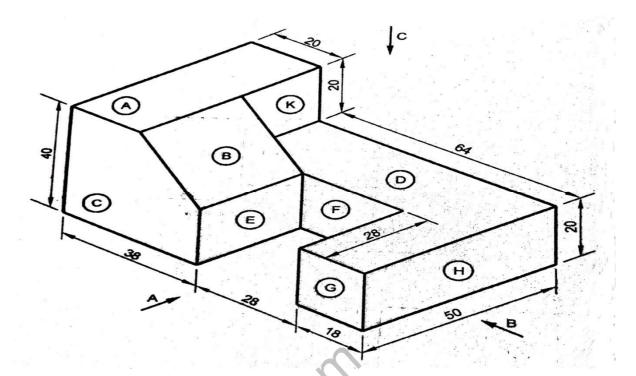


FIGURE-1

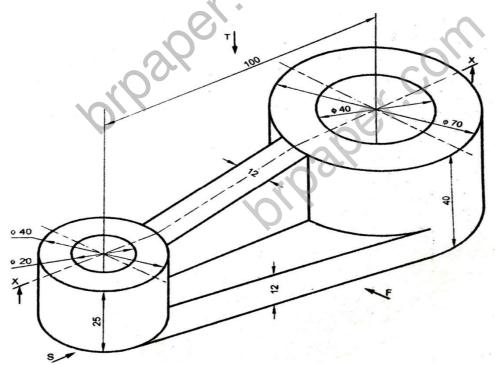


FIGURE-2

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ENGINEERING DRAWING-I

	1 st Exam/Civil/Mech./Electrical/ECE/IT/CSE/Auto/Machatronics/7152/May'19						
	(FOR 2018 BATCH)						
Duration	n: 4 hrs M. Marks. 100						
	SECTION-A						
Q1. Fill i	n the blanks. 10x1.5=15						
a.	The section lines are drawn at to the horizontal line.						
b.	Half scale is indicated as						
c.	Plain scale represents units.						
d.	In lettering size of letters is described by their						
e.	The purpose of sectioning is to show the details of an object.						
f.	Length of scale = X						
	Isometric view of a circle is an						
h.	A hidden object is shown by line.						
i.	Length of an arrowhead is times the thickness of the arrowhead.						
j.	A diameter is denoted by						
	SECTION-B						

Q2. Attempt any five questions.

5x7=35

- i. What is difference between third angle and first angle projection?
- ii. Write in freehand vertical lettering "TIME IS GREAT HEALER" sentence taking size 10mm.
- iii. Construct a plane scale of RF 1/40 to show metres and decimetres and long enough to measure 8 metres. Show a distance of 6 metres and 4 decimetres on this scale.
- iv. A line 50mm long is inclined at 45° to the V.P. It is parallel to H.P. and 20 mm above it. Draw its
- v. Draw the symbols representing the following: -
- b) Wood
 - c) Cast Iron
- d) Liquid
- vi. What is importance of dimensioning? Explain chain and parallel dimensioning.
- vii. Explain true scale and isometric scale.

SECTION-C

Q3. Attempt any two questions.

2x25=50

- a. A cube of 40 mm edge is placed on a cylindrical slab 75 mm in diameter and 45 mm thick. On the top of the cube, rests a square pyramid, altitude 40 mm and side of base 25 mm. The axes of solids are in the same straight line. Draw isometric view of the solid.
- b. Figure 1 shows pictorial view of an object. Draw front, side and top views in full scale in first angle projections.
- c. Figure 2 shows isometric view of an object. Draw full sectional front view and half sectional side view.



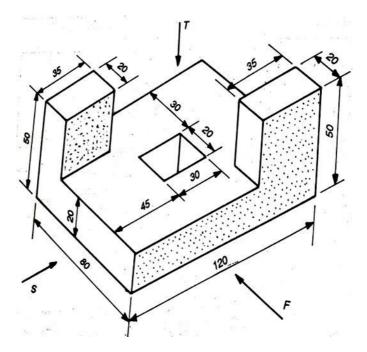


Figure-1

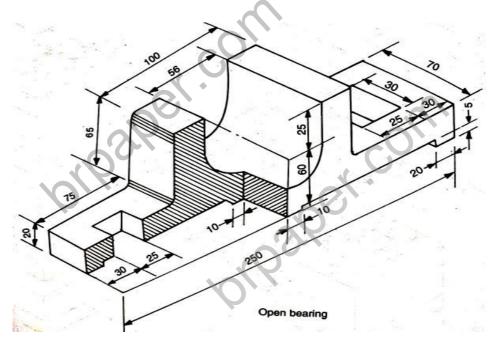


Figure-2

S.B. Roll No.....

ENGINEERING DRAWING-II 2nd Exam/Common/2454/2551/5426/Sep'2020

Duration: 1.15 Hrs. M.Marks:25

SECTION-A

Q1. Attempt any one question.

10x1=10

- a. Draw the front view and side view of a hexagonal nut taking diameter as 24 mm.
- b. Draw free hand but proportionate sketches of the following taking pitch as 'P'.
 - a) Metric threads
- b) Acme threads
- c. Draw proportionate front view and side view of a spigot and socket joint.
- d. Make freehand pictorial sketch of a gib head key.

SECTION-B

Q2. Attempt any one question.

- i. Draw top and sectional view and sectional front view of a single riveted double cover or strap butt joint. Take dia. of rivet as 24 mm. Draw third angle projection.
- ii. Draw three views of hexagonal headed bolt with hexagonal nut and washer assembly diameter of bolt, d=24 mm.
- iii. Draw the front view of knuckle joint assembly. Take all the dimensions proportionately (free hand).



S.B. Roll No.....

ENGINEERING DRAWING-I 1st Exam/Common/2655/0551/5405/Sep'2020

Duration: 1.15 Hrs. M.Marks:25

SECTION-A

Q1. Attempt any two questions.

2x5=10

- a. What is difference between third angle and first angle projection?
- b. Draw various conventions for various lines used in engineering practice.
- c. Write in freehand vertical lettering "BASANT" sentence taking size 30mm in 7:4.
- d. Draw the symbols representing the following:
 - a) Earth
- b) Cement Concrete
 - c) Wood
- d) Brickwork e) Cast iron
- e. Draw the isometric projection of a square prism 50mm side and 70mm height.
- f. What is the difference between true scale and isometric scale?
- g. What do you understand by cutting plane line? Where it is used?
- h. Define plain scale and diagonal scale.

SECTION-B

Q2. Attempt any one question.

- i. A right circular cylinder of diameter 40mm and height 60mm is centrally placed vertically on a 50mm square prism of thickness 15mm. Draw isometric projection of the cylinder placed vertically on a prism.
- ii. **Figure 1** shows pictorial view of an object. Draw front, side and top views in full scale in first angle projections.
- iii. **Figure 2** shows isometric view of an object. Draw full sectional front view, full sectional side view.

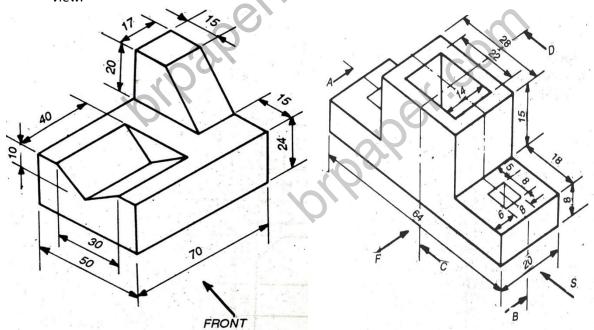


Figure-1 Figure-2



S. B. Roll. No.....

ENGINEERING DRAWING II 2nd Exam/ Civil/Elect/Mech./Auto/Mechatronic/2953/Jun'2021 (For 2018 Batch Onwards)

Duration: 1.15Hrs. M.Marks:25

SECTION-A

Q1. Attempt any one question. Assume missing dimensions.

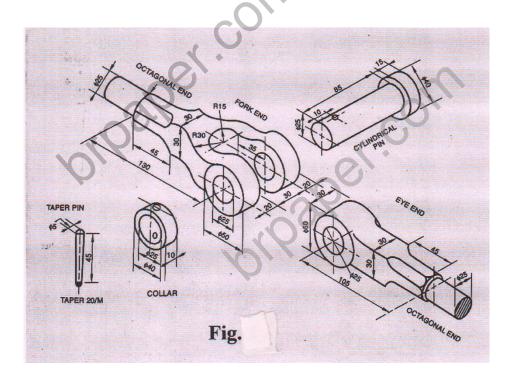
1x10=10

- i. Draw the basic thread forms of the following threads.
 - a) Knuckle Thread b) Buttress Thread c) American Thread
- ii. Draw proportionate drawing of following Rivet Heads.
 - a) Flat Counter Sunk b) Snap Head c) Conical Head
- iii. Draw front and top view of a hexagonal nut for a bolt of diameter 24mm.

SECTION-B

Q2. Attempt any one question.

- a. Draw top view and sectional front view of a double riveted lap joint (Zig-Zag riveting). Take Diameter of rivet = 24mm.
- b. **Fig.** shows the component drawings of a knuckle joint. Draw the top view and front sectional view of the assembly.
- c. Draw front view and side view of a hexagonal headed bolt with double chamfered nut, lock nut and washer assembly. Take Diameter of bolt = 24mm





S. B. Roll. No.....

ENGINEERING DRAWING-I 1st Exam/Common/2655/0551/5405/Jun'2021

Duration: 1.15Hrs. M.Marks:25

SECTION-A

Q1. Attempt any one questions.

1x10=10

- i. Print "ENGINEERING" using single stroke inclined lettering in the ratio of 7:4 and height of 28mm.
- ii. Construct a diagonal scale of RF 1:250 to show decimetre & long enough to measure up to 30m. Indicate a distance of 28.9m on it.
- iii. Draw the Conventional symbols for the following
 - a) Pipe or tubing b) Channel section c) Round Section

SECTION-B

Attempt any one question.

- **Q2**. **Figure 1** shows pictorial view of an object. Draw front, side and top views in full scale in first angle projections.
- **Q3. Figure 2** shows pictorial view of an object. Draw the following.
 - a. Sectional front view along XX
 - b. Side view
 - c. Top view, in first angle projections.
- **Q4.** On the top of the cube of 60 mm edge, rests a cylinder of diameter 30 mm and height 50 mm. The axes of cube and cylinder are in the same straight line. Draw isometric view of the solid.

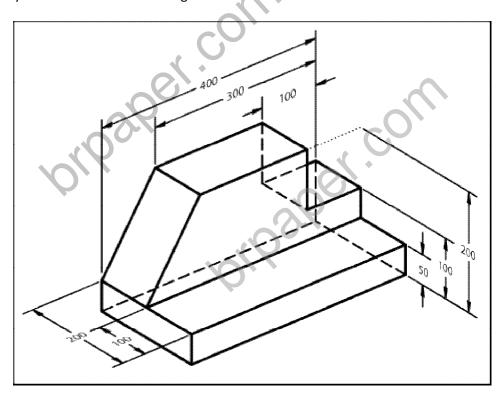


Figure 1



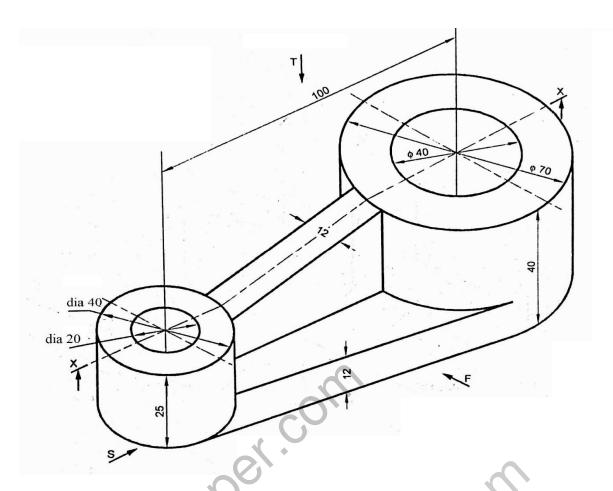


Figure-2

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ENGINEERING DRAWING-I 1st Exam/Common/7152/Jun'2021 (For 2018 batch onwards)

Duration: 1.15Hrs. M.Marks:25

SECTION-A

Q1. Attempt any one questions.

1x10=10

- i. Write in single stroke capital letters in the ratio 6:5 in the height of 35mm, the following statement: WORK IS WORSHIP
- ii. Draw the conventional breaks of the following materials.
 - a) Pipe b) Wooden rectangular section
- c) Rolled Section
- d) Channel section.
- iii. Draw various conventions for various lines according to B.I.S. as used in engineering practice.
- iv. To draw a simple scale or plain to show meters and decimeters when one meter is represented by 2.5 centimeters on the scale. The scale should be long enough to measure upto 6 metres. Mark on the scale 4 metres 7 decimeters and 5 metre one decimeter.

SECTION-B

Attempt any one question.

- **Q2.** Isometric view of a block as shown in fig (a) is given showing complete dimensions. Draw to a suitable scale the views a) Front view b) Side view c) Top view in first angle projection.
- **Q3.** An isometric view of a cast iron block is given in Fig (b). Draw a) Front view b) Sectional side view.
- **Q4.** A right circular cylinder of diameter 40mm and height 60mm is centrally placed vertically on a 50mm square prism of thickness 15mm. Draw front view of the cylinder and block. Draw isometric projection of the cylinder placed vertically on a prism.



