

Roll No.

--	--	--	--	--	--	--	--	--	--	--	--

Total No. of Pages: 02
Total No. of Questions: 09

B. Tech (Sem.-1st & 2nd)
Engineering Drawing
Subject Code: BTME-102
Paper ID: [A1110]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATE:

1. Section-A is compulsory consisting of TEN questions carrying TWO marks each.
2. Attempt any five questions from Section B & C together selecting at least two from each Section.

SECTION-A

- Q1. a) What is Gothic Lettering? Write free hand the following words in gothic lettering. "SYSTEM OF DIMENSIONING" with the help of a sketch?
- b) Show the aligned system of Dimensioning with the help of sketch.
- c) Draw the symbols of 1st Angle and IIIrd Angle of projections?
- d) What is a diagonal scale and what is its principle?
- e) Draw the continuous thick and continuous thin lines and their use?
- f) What do you mean by a reducing and enlarged scale?
- g) Show with the help of sketch the isometric scale.
- h) Draw the frestom of a cone?
- i) Differentiate between a prism and a pyramid show it with the help of suitable sketches.
- j) Name the two auxiliary planes and their difference with the principal planes.

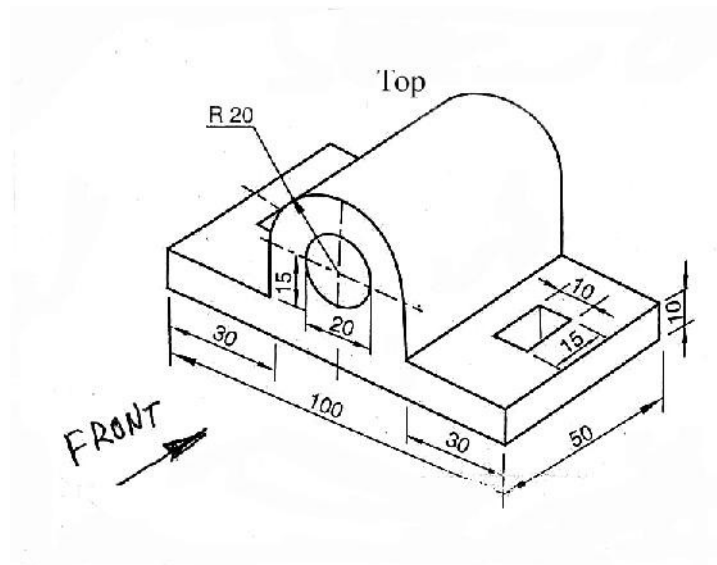
SECTION-B

- Q2. Construct a diagonal scale to read up to 1/100 of kilometers having given the value of RF=1/50,000 and to measure up to 8 kilometers. Indicate on scale a distance of 6.76 kilometers. (8)
- Q3. Draw the projections of the following points.
- (i) Point 'A' 30 mm in front of VP and 40mm above HP
- (ii) Point 'B' 35mm behind VP and in HP (8)

- Q4. A line 50mm long is inclined at angle of 45° with HP and parallel to VP. Draw the projections of the line and determine its trace when the end A is 20mm in front of V.P. and 10mm above HP (8)
- Q5. Draw the projections of a square lamina of 25mm side, the plane of which is inclined at 30° to HP and one diagonal is horizontal. (8)

SECTION-C

- Q6. A cylinder of 40mm diameter and 60mm long is lying in such a way that its axis makes an angle of 30° with VP. It is cut by horizontal sectional plane perpendicular to VP at a distance of 10mm from the axis. Draw the sectional plan of the cylinder. (8)
- Q7. A square pyramid of 25mm side of base and 60mm height, is resting on its base. A sectional plane making an angle of 60° with HP and cutting its axis at a height of 40mm from the base. Develop the truncated cone. (8)
- Q8. A cube of 40mm side rests centrally on a square block of 60mm edges and 20mm thick. Draw the isometric projection of the two objects with the eadges of the two block kept mutually parallel to each other. (8)
- Q9. Draw the front view in the direction of arrow and its top view of the object shown below. All dimensions are in mm. (8)



---:END:---