



INSTITUTE OF ENGINEERING
AND TECHNOLOGY

JK Lakshmipat University Jaipur
INSTITUTE OF ENGINEERING AND TECHNOLOGY

B. Tech. in Mechanical Engineering

1st Year (1st Semester)

Backlog, December, 2022

No. of Pages = 02

No. of Questions = 05

Course No. : ES1102
Course Title : Design and Prototyping
Nature of Exam : On campus
Max Marks : 40
Duration : 3hrs

Roll No: _____

Note:

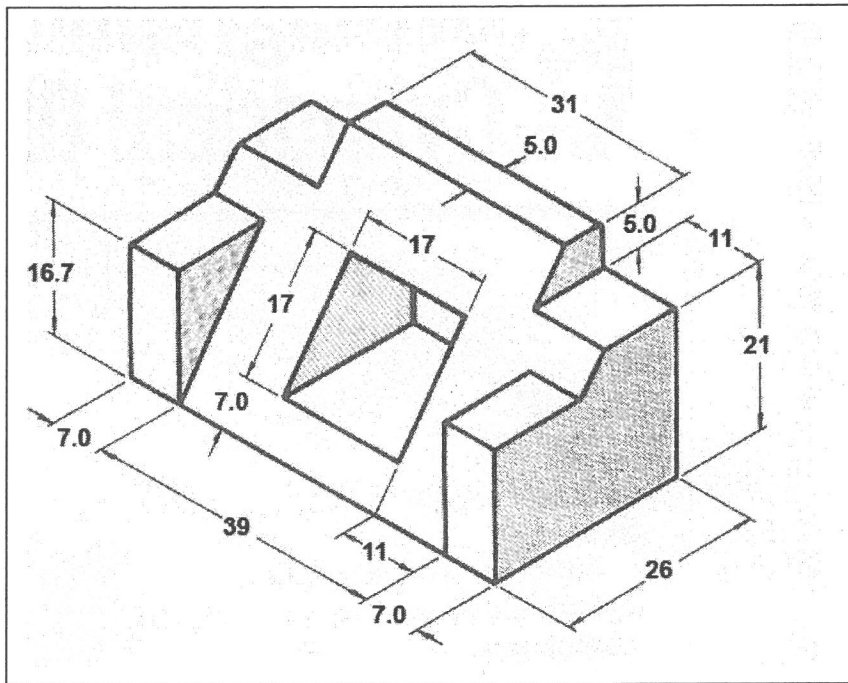
1. Draw neat Drawings using different grade of pencils
2. Assume data as and when required
3. Write only Roll No in Question Paper
4. Drawing sheet provided by exam cell can be used only.

- 1 Draw the projections of the following points on the same ground line, keeping the projectors 25 mm apart. MM 5 CO.
 - i. L, in the H.P. and 20 mm behind the V.P.
 - ii. M, 40 mm above the H.P. and 25 mm in front of the V.P.
 - iii. N, 40 mm below the H.P. and 25 mm in front of the V.P.
- 2 Two points A and B are in the H.P. The point A is 30 mm in front of the V.P., while B is behind the V.P. The distance between their projectors is 75 mm and the line joining their top views makes an angle of 45° with xy. Find the distance of the point B from the V.P. MM 5 CO2
- 3 A 80mm long line CD is inclined at 30° to VP and parallel to HP. The end C is 20 mm above the HP and 20mm in front of the VP. Draw the projection of the line MM 10 CO3

P.T.O

- 4 Draw the front view, top view, and side views of the given figure in 1st angle projection.

MM 10 CO4



- 5 Draw the projection of a hexagonal lamina 30 mm side, has a corner at 20mm from the VP and 50 mm from the HP, its surface is inclined at 45° to VP and perpendicular to HP.

MM 10 CO4