



JK Lakshmipat University Jaipur
INSTITUTE OF ENGINEERING AND TECHNOLOGY

B. Tech. in Mechanical Engineering

1st Year (1st Semester)

Retest Exam, March, 2022

Course No. : ES1112
Course Title : Design and Prototyping-II
Nature of Exam : On campus
Max Marks : 40
Duration : 180 Minutes

No. of Pages = 02

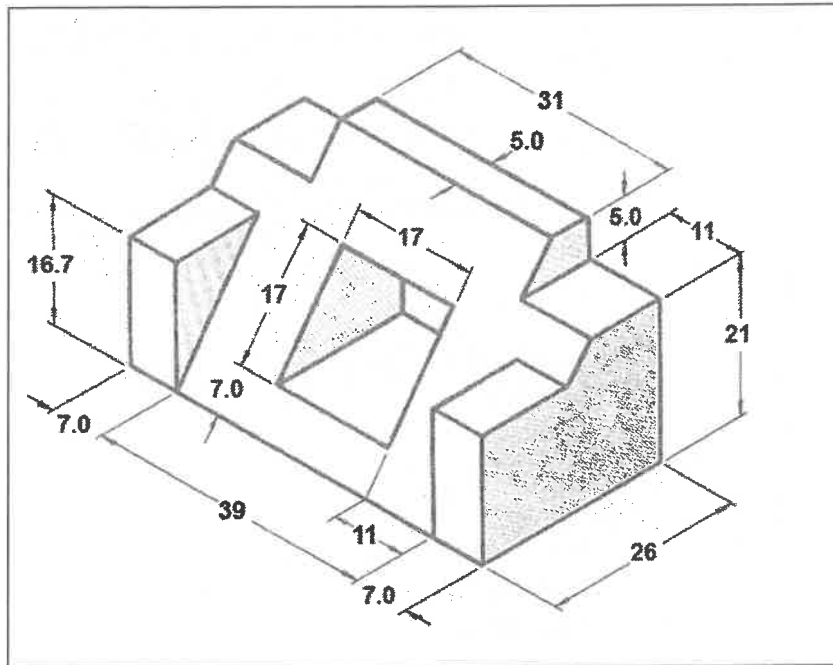
No. of Questions = 05

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 A person wants to find a destination route through mobile while driving a car on a heavy rainy night. Write one problem statement for the situation and suggest at least two products as a solution. CO1 5
- 2 With the help of suitable example, discuss ductility, malleability, toughness and hardness CO1 5
- 3
 - I. A point C is 20mm below HP and 30 mm behind VP. Draw its projection.. CO4 10
 - II. A line AB 60 mm long has its end 20 mm above HP and 30 mm in front of VP. The line is kept perpendicular to HP and parallel to VP. Draw its projections. Also mark the traces.
- 4 Draw the front view, top view, and side views of the given figure in 1st angle projection. CO1 10



- 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.

CO4 10