



# MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)

(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)

Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section 2(f) & 12(B) of the UGC act, 1956

I B.Tech II Sem Supply End Examination, July (March) 2021

## ENGINEERING GRAPHICS

(EEE, CSE & INF)

**Time: 2 Hours.**

**Max. Marks: 70**

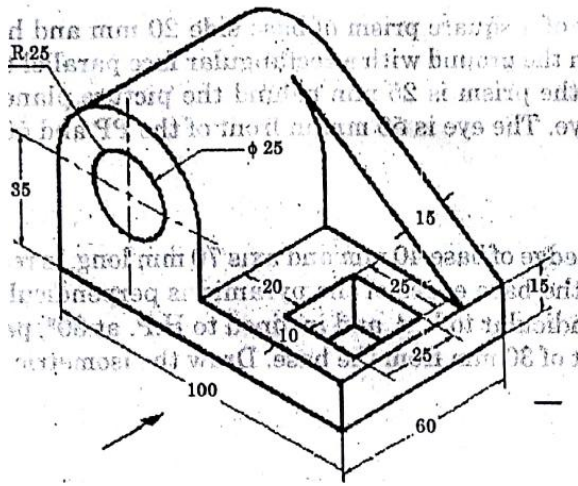
Note: 1. Answer any FIVE questions.

2. Each question carries 14 marks and may have a, b as sub questions.

- |   |  |     |     |     |
|---|--|-----|-----|-----|
| 1 | a) List out the types of Scales used in the engineering graphics.  | 7M  | C01 | BL1 |
|   | b) On a plan, a line of 22 cm long represents a distance of 440 m. Draw a diagonal scale for the plan to read upto a single metre. Measure and mark a distance of 187m on the scale.                                     | 7M  | C01 | BL1 |
| 2 | Construct a hyperbola when the distance between the focus and directrix is 40 mm, the eccentricity is $\frac{4}{3}$ , Also draw tangent and normal to the curve from any point on it.                                    | 14M | C02 | BL1 |
| 3 | The point A of a line AB is in HP and 60 mm in front of VP. The point B is in VP and 40 mm above HP. The distance between projectors is 70 mm. Draw the projections of line, find the true length and true inclinations. | 14M | C02 | BL1 |
| 4 | A pentagonal pyramid of base edge 25mm and axis length 60 mm rest on one of its base side on HP such that its axis is inclined at $45^\circ$ to HP. Draw its projections.  | 14M | C02 | BL2 |
| 5 | A square pyramid of base side 40 mm, axis height 60 mm is resting on its base on HP. It is cut by a horizontal section plane bisecting the axis. Draw its front view and sectional top view.                             | 7M  | C01 | BL1 |
|   | b) Describe the types of section planes.   | 7M  | C01 | BL1 |
| 6 | A cone of diameter of base 50 mm and height 60 mm is cut by horizontal cutting plane at 20 mm from the apex. Draw the development of the truncated cone.   | 14M | C02 | BL2 |
| 7 | a) What is meant by development of surface?  | 7M  | C01 | BL1 |
|   | b) Draw the isometric views of a circular plane of diameter 50 mm.   | 7M  | C01 | BL1 |

8 Draw the elevation, top and side view for the component given below. All dimensions are in "mm"

14M CO1 BL1



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