

ANURAG Engineering College

(An Autonomous Institution)

I B.Tech II Semester Supplementary Examinations, Jan/Feb–2024

ENGINEERING GRAPHICS**(COMPUTER SCIENCE AND ENGINEERING)****Time: 3 Hours****Max. Marks: 75****Answer all questions, each question carries equal marks.****(5 X 15M = 75M)**

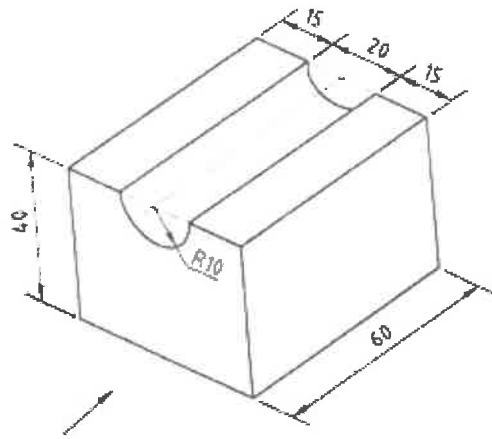
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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|-----|
| 1. A) The vertex of a hyperbola is 65 mm from its focus. Draw the curve if the eccentricity is $3/2$. Draw a normal and a tangent at a point on the curve, 75 mm from the directrix. | CO1 | L3 | 15M |
| OR | | | |
| B) A circle of 50 mm diameter rolls on a horizontal line for a half revolution and then on a vertical line for another half revolution. Draw the curve traced out by a point P on the circumference of the circle. | CO1 | L3 | 15M |
| 2. A) A line AB, 65 mm long, has its end A 20 mm above the H.P. and 25 mm in front of the V.P. The end B is 40 mm above the H.P. and 65 mm in front of the V.P. Draw the projections of AB and shows its inclinations with the H.P. and the V.P. | CO2 | L3 | 15M |
| OR | | | |
| B) The top view of a 75 mm long line AB measures 65 mm, while the length of its front view is 50 mm. It's one end A is in the H.P. and 12 mm in front of the V.P. Draw the projections of AB and determine its inclinations with the H.P. and the V.P. | CO2 | L3 | 15M |
| 3. A) A square ABCD of 50 mm side has its corner A in the H.P. Its diagonal AC inclined at 30° to the H.P. and the diagonal BD inclined at 45° to the V.P. and parallel to the H.P. Draw its projections. | CO3 | L3 | 15M |
| OR | | | |
| B) A hexagonal pyramid, base 25 mm side and axis 55 mm long, has one of its slant edges on the ground. A Plane containing that edge and the axis is perpendicular to the H.P. and inclined at 45° to the V.P. Draw its projections when the apex is nearer the V.P than the base. | CO3 | L3 | 15M |
| 4. A) Draw the isometric view of a vertical cylinder of base diameter 50 mm and axis length 60mm. | CO4 | L3 | 15M |
| OR | | | |
| B) Draw the isometric view of a square prism of side 30mm and axis 50mm long when its axis vertical. | CO4 | L3 | 15M |

5. A) Draw the front view, top view and right-side view of the object shown in fig. i

CO5

L3

15M



OR

B) Draw the front view, top view and left-side view of the object shown in fig. ii

CO5

L3

15M

