

Code: 15A03101b

B.Tech I Year I Semester (R15) Supplementary Examinations June 2017

ENGINEERING DRAWING
(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 70

(Answer all five units, 05 X 14 = 70 Marks)

UNIT – I

- 1 A cricket ball thrown from the ground level reaches the wicket keeper's gloves. Maximum height reached by the ball is 5 m. The ball travels a horizontal distance of 11 m from the point of projection. Trace the path of the ball.

OR

- 2 Construct a hyperbola when the distance between the focus and the directrix is 40 mm and the eccentricity is $4/3$. Draw the tangent and normal at any point on the curve.

UNIT – II

- 3 Construct a diagonal scale to read up to $1/100^{\text{th}}$ of a meter given RF = $1/70$ and to measure up to 6 m. Indicate a distance of 5.45 m.

OR

- 4 A room of 1000 m^3 volume is represented by a block 125 cm^3 volume. Find the R.F and construct a plain scale to measure up to 30 m. Measure a distance of 18 m on your scale.

UNIT – III

- 5 A line L.M 70 mm long has its end 'L' 10 mm above HP and 15 mm in front of VP. Its top and front views measure 60 mm and 40 mm respectively. Draw the projections of the line. Find its inclinations with HP and VP.

OR

- 6 One end of the line UV is in the first quadrant, 20 mm above HP and 30 mm in front of VP. The other end is 40 mm behind VP and 50 mm below HP. The distance between the projectors of the line is 60 mm. Draw the projections of the line and find its true length.

UNIT – IV

- 7 A thin rectangular plate of sides 50 mm x 25 mm has its shorter side in the HP and inclined at an angle of 30° to the VP. Project its front view when its top view is a perfect square of 25 mm side.

OR

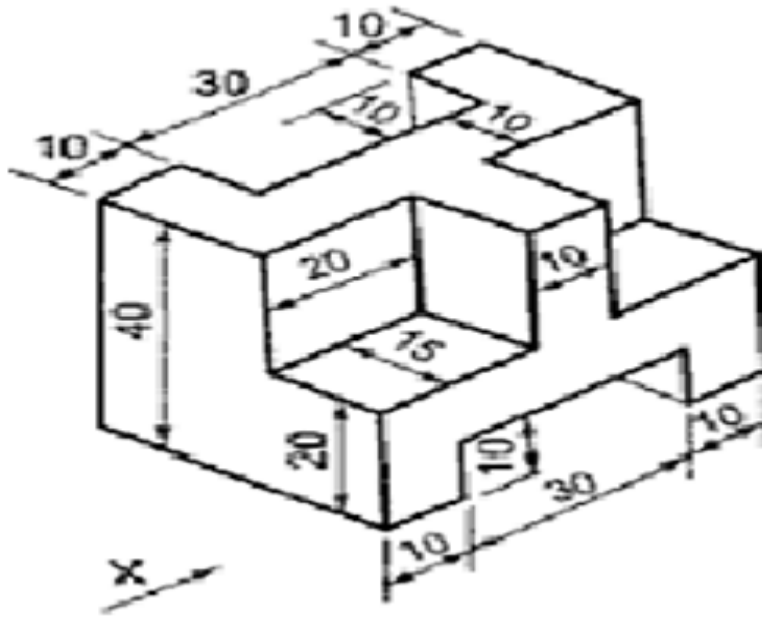
- 8 A hexagonal lamina of 25 mm side has its surface inclined at 30° to HP. Its one side is parallel to HP and inclined at 45° to VP. Draw its projections.

Contd. in page 2

Code: 15A03101b

UNIT – V

- 9 A pentagonal prism side of base 30 mm and axis 60 mm long, rests with one of its edges on HP such that the base containing that edge makes an angle of 30° to HP and its axis is parallel to VP. Draw its projections.
- OR**
- 10 Draw the front view, top view and side view for the following isometric view.



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