# RAVINDRA COLLEGE OF ENGINEERING FOR WOMEN

I B.Tech I SEMESTER (R19) I MID TERM EXAMINATIONS – SEPTEMBER-2018
### ENGINEERING DRAWING
**CSE**

Time: 90Minutes                            Max Marks: 15                    **Date:** 08 /09/2018

**Answer either 1 (OR) 2, 3 (OR) 4, 5 (OR) 6 (Each question carries 5 marks)**

| S.NO | Question | Unit | CO | Cognitive level |
|------|----------|------|----|-----------------|
| 1. | Construct an ellipse when the distance between the focus and the directrix is 30 mm and the eccentricity is 2/3. Draw the tangent and normal at any point on the curve. | I | CO1.1 | **UNDERSTAND** |
| 2. | A circle of 50 mm diameter, rolls on a horizontal line for half a revolution clockwise and then remaining half vertical, clockwise. Draw the curve traced by a point P on the circumference of the circle, taking the top most point on the rolling circle as the initial or generating point. | I | CO2.2 | **APPLY** |
| 3. | Draw an epicycloid of a rolling circle of 40 mm which rolls outside another circle of 150 mm diameter for one revolution. Draw a tangent and a normal at any point on the curve. | II | CO1.1 | **UNDERSTAND** |
| 4. | Draw projections for the following points. <br> a) A (+30mm, +25mm) <br> b) B (+28mm, -22mm) <br> c) A (-30mm, -28mm) <br> d) A (-25mm, +40mm ) | II | CO2.2 | **APPLY** |
| 5. | Construct a scale, to measure km, 1/8 of a km, and 1/40 of a km, in which 1km is represented by 4 cm. Mark on this scale, a distance if 3.575 km. | I | CO2.2 | **UNDERSTAND** |
| 6. | Draw projections of the following points on the same reference line keeping the projectors 50 mm apart. <br> A -40 mm above the H.P and 50 mm in front of the V.P <br> B -40 mm below the H.P and 50 mm in front of the V.P <br> C- Point M is lying on V.P and 40 mm above of H.P. <br> D-Point N on H.P as well on V.P. | II | CO2.2 | **APPLY** |

# RAVINDRA COLLEGE OF ENGINEERING FOR WOMEN

I B.Tech I SEMESTER (R20) II MID TERM EXAMINATIONS –AUGUST 2021
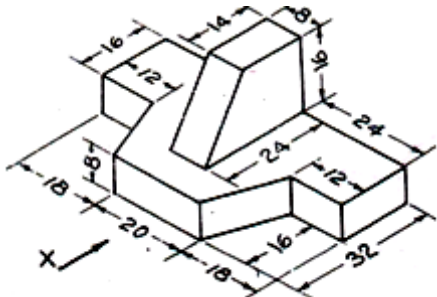## ENGINEERING DRAWING

### cse

Time: 90Minutes                    Max Marks: 15                    **Date:** 16/11/2018

**Answer either 1 (OR) 2, 3 (OR) 4, 5 (OR) 6 (Each question carries 5 marks)**

| S.NO | Question | Unit | CO | Cognitive level |
|------|----------|------|-----|-----------------|
| 1. | A line CD, 80 mm long is inclined at an angle of $30^0$ to the H.P and $45^0$ to the V.P. The point 'C' is 20mm above H.P and 30mm in front of V.P. Draw projections of the straight line | III | CO3.3 | **APPLY** |
| 2. | A regular pentagonal plate of side 30 mm is resting on H.P on of its sides with its surface inclined at $45^0$ to H.P. Draw its projections when the side in the H.P makes $30^0$ with the V.P. Assuming initial position is parallel to H.P. | III | CO3.3 | ANALYZE |
| 3. | One of the body diagonals of a cube of 50 edge is parallel to the H.P and inclined at $60^0$ to the V.P .draw projections of the cube | IV | CO4.4 | **UNDERSTAND** |
| 4. | Draw the full development of a cube of 30mm side which rests on H.P with all the edges equally inclined to V.P, cut by a sectional plane inclined at$30^0$ to H.P and passes through top left corner of the cube | IV | CO5.5 | **APPLY** |
| 5. | Draw the isometric view of a hexagonal pyramid of base 30 mm side and height 75 mm, when it rests on its base on H.P such that an edge of the base is parallel to V.P. (By using off-set method) | V | CO5.5 | **UNDERSTAND** |
| 6. | Draw the front view, top view and right side view of the object shown below  | V | CO6.6 | ANALYZE |

# RAVINDRA COLLEGE OF ENGINEERING FOR WOMEN

I B.Tech I SEMESTER (R20) I MID TERM EXAMINATIONS – MARCH-2021

### ENGINEERING DRAWING

#### (ECE)

Time: 90Minutes                     Max Marks: 15          **Date:** 08 /03/2018

**Answer either 1 (OR) 2, 3 (OR) 4, 5 (OR) 6 (Each question carries 5 marks)**

| S.NO | Question | Unit | CO | Cognitive level |
|------|----------|------|-----|-----------------|
| 1. | Draw an ellipse having the major axis of 70 mm and the minor axis of 40 mm | I | CO1.1 | **UNDERSTAND** |
| 2. | Draw an epicycloid of a circle of 40 mm diameter, which rolls outside on another circle of 40 mm diameter for one revolution clockwise | I | CO2.2 | **APPLY** |
| 3. | A circle of 50 mm diameter, rolls on a horizontal line for half a revolution clockwise and then on a line inclined at $60^0$ to the horizontal for another half, clockwise. Draw the curve traced by a point P on the circumference of the circle, taking the top most point on the rolling circle as the generating point. | II | CO1.1 | **UNDERSTAND** |
| 4. | A cube of 5 cm side represented a tank of 1000 m$^3$ volume. Find R.F. Construct a scale to measure up to 35 m and mark a distance of 27 m on it. | II | CO2.2 | **APPLY** |
| 5. | w the projections of the following points<br>a) Point A - 25 mm above H.P and 50 mm in front of V.P.<br>b) Point B - 45 mm above H.P and 60 mm behind V.P.<br>c) Point B - lying on V.P and 40 mm above H.P.<br>     d) Point M - 60 mm below H.P and 45 mm in front of V.P. | I | CO2.2 | **UNDERSTAND** |
| 6. | The distance between two points on a map is 5 cm. The real distance between them is 25 m. Construct a diagonal scale to measure up to 60 m and show a distance of 47.5m on the scale. | II | CO2.2 | **APPLY** |

# RAVINDRA COLLEGE OF ENGINEERING FOR WOMEN

I B.Tech I SEMESTER (R20) II MID TERM EXAMINATIONS –AUGUST 2021

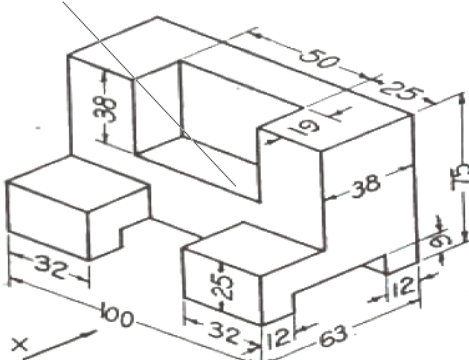## ENGINEERING DRAWING

### (ECE)

Time: 90Minutes　　　　　　　　　Max Marks: 15　　　　　　　**Date: 06-08-2021**

**Answer either 1 (OR) 2, 3 (OR) 4, 5 (OR) 6 (Each question carries 5 marks)**

| S.NO | Question | Unit | CO | Cognitive level |
|---|---|---|---|---|
| 1. | A line NS,80 mm long has its end N,10 mm above the H.P and 15 mm in front of the V.P. The other end S is 65 mm above the H.P and 50mm in front of the V.P. Draw the projections of the line and finds its true inclinations with the H.P and the V.P. | III | CO3.3 | **APPLY** |
| 2. | A semi-circular plate of 80 diameter, has its straight edge on the V.P and inclined at $30^0$ to the H.P, while the surface of the plate is inclined at $45^0$ to the V.P. Draw the projections of the plate. | III | CO3.3 | ANALYZE |
| 3. | A right circular cone, 40 mm base diameter and 60 mm long axis is resting on the H.P on a point of the base circle such that its axis makes $45^0$ inclination with the H.P and $40^0$ inclination with the VP. Draw its projections. | IV | CO4.4 | **UNDERSTAND** |
| 4. | A hexagonal prism of base 30 mm side and axis 70 mm long is resting on its base on the H.P such that a rectangular face is parallel to the V.P. It is cut by a sectional plane perpendicular to the V.P and inclined at $30^0$ to the H.P. The section plane is passing through the top end of an extreme lateral edge of the prism. Draw the development of the lateral surface of the cut prism | IV | CO5.5 | **APPLY** |
| 5. | Draw the isometric projection of a square prism of base 35 mm side and height 65 mm, when its axis is<br>　　　(a) Vertical and--- (5M) (b) Horizontal.--(5M) | V | CO5.5 | **UNDERSTAND** |
| | Draw orthographic views of the following isometric view<br> | V | CO6.6 | ANALYZE |