| | Ticket Number: | | | _ | |
|-----------------|--|--|------------------------------|---|-----------------------|
| | | | | | |
| | I/ | IV B.Tech (| Suppl | ementary) DEGREE EXAMINATION | |
| Dece | mber, 2019 | , | | Common to all Branc | hes |
| First/ Time: | Second Semester Three Hours | | | Engineering Graph Maximum: 60 M | l ics Iarks |
| Answei | r ONE question from ea | ch unit. | | (5X12 = 60 Ma) | arks) |
| 1 | Construct ellipse method. | with major | axis | 100mm and minor axis 70mm by using concentric circles | |
| | methou. | | | | 12M |
| 2. | A circle of diame the circle for one point 35 mm abov | ter 50 mm : complete : ve the base 1 | rolls revol line. | (OR) over a straight line. Trace a point on the circumference of ution. Also, draw a tangent and normal to the curve at a | 12M |
| 3. | A 80mm long line other end point B and determine its | e AB has its is 60mm al inclinations | end bove s with | UNIT II point A is 30mm above HP. and 40mm in front of VP. The HP. and 10mm in front of VP. Draw the projections of AB reference planes. | 12M |
| 4. | (OR) An 80mm long line AB has its end point A on the HP. and 15mm in front of the VP. The li is inclined at 30^0 to the HP. and its top view is inclined at 60^0 to the reference line. Draw to projections of the line AB and determine true angle of inclination with the VP. | | | | 12M |
| 5. | A Semi Circular 1 45 ⁰ to VP. Draw t | Lamina of o he projectio | diame on of j | UNIT III eter 55mm has its straight edge on the HP. and inclined at plane when its surface is inclined at 30° to the HP. | 12M |
| 6. | A Pentagon PQR And the corner Q the projection of t | ST of side 2 is 15mm i he plane an | 25mn n fro d fine | (OR) n has its side PQ in the HP. and inclined at 30° to the VP. nt of VP. And the corner S is 25mm above the HP. Draw d its inclination with the VP. | 12M |
| 7. | A Hexagonal pris such that the axis | m of base e is inclined | edge 3 at 45 ⁰ | UNIT IV 30mm axis 65mm rest on one of its base edges on the HP. 0 to HP and 30 ⁰ to VP. Draw its projections. | 12M |
| 8. | Draw the projection base circle on the | ons of a cor ground wit | ne bas h axis | (OR) se diameter 45mm and axis 65mm resting on a point of the s inclined at 45° to HP. and 60° to the VP. | 12M |

CS/EC/IT/ME 126/116 BT/CE/CH/EC/EI 106/206

P.T.O.

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UNIT V

9. Draw the isometric view of the object whose orthographic projections are shown in fig (a). All dimensions are in mm.



12M

(OR)

- 10 Draw the following views of the object given in fig (b). All dimensions are in mm.
 - (a) Front View
 - (b) Top View and
 - (c) Both Side Views.



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12M

BT/CE/CHE/EE/EI 116 CS/IT/EC/ME 126





I/IV B.Tech (Supplementary) DEGREE EXAMINATION

May, 2018 First/Second Semester Time: Three Hours

All questions carry EQUAL marks

Common to all branches ENGINEERING GRAPHICS Maximum: 60 Marks

(5X12 = 60 Marks)

Answer ONE question from each unit.

UNIT I

1. A ball is thrown from the ground level which reaches a height of 16 m and a horizontal distance of 28 m before coming to the ground. Trace the path of the ball and determine direction of the ball when it was at a height of 10 m from the ground.

(OR)

2. A circle of diameter 50 mm rolls over a straight line. Trace a point on the circumference of the circle for one complete revolution. Also, draw a tangent and normal to the curve at a point 35 mm above the base line.

UNIT II

3. A 80mm long line AB has its end point A is 30mm above HP. and 40mm in front of VP. The other end point B is 60mm above HP. and 10mm in front of VP. Draw the projections of AB and determine its inclinations with reference planes.

(**O**R)

4. An 80mm long line AB has its end point A on the HP. and 15mm in front of the VP. The line is inclined at 30° to the HP. and its top view is inclined at 60° to the reference line. Draw the projections of the line AB and determine true angle of inclination with the VP.

UNIT III

5. A Semi Circular Lamina of diameter 55mm has its straight edge on the HP. and inclined at 45° to VP. Draw the projection of plane when its surface is inclined at 30° to the HP.

(OR)

6. A Pentagon PQRST of side 25mm has its side PQ in the HP. and inclined at 30⁰ to the VP. And the corner Q is 15mm in front of VP. And the corner S is 25mm above the HP. Draw the projection of the plane and find its inclination with the VP.

UNIT IV

7. A Hexagonal prism of base edge 30mm axis 65mm rest on one of its base edges on the HP. such that the axis is inclined at 45° to HP and 30° to VP. Draw its projections.

(OR)

8. Draw the projections of a cone base diameter 45mm and axis 65mm resting on a point of the base circle on the ground with axis inclined at 45° to HP. and 60° to the VP.

BT/CE/CHE/EE/EI 116 CS/IT/EC/ME 126

UNIT V

9. Draw the isometric view of the object whose orthographic projections are shown in fig (a). All dimensions are in mm.



(OR)

- 10. Draw the following views of the object given in fig (b). All dimensions are in mm.
 - (a) Front View
 - (b) Top View and
 - (c) Both Side Views.



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