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Total No. of Pages : 2

**BT-1/D11**

**7516**

**Engineering Graphics and Drawing**

**Paper : ME-105 E (2010-11)**

**Option : I**

Time : Three Hours]

[Maximum Marks : 100

**Note :-** Attempt any FIVE questions, selecting at least ONE question from each Unit.

**UNIT-I**

1. Draw the projections of the following points, keeping the distance between the projectors as 25 mm on the same reference line :
  - (a) Point A 25 mm above H.P. and 45 mm in front of V.P.
  - (b) Point B 35 mm above H.P. and 50 mm behind V.P.
  - (c) Point C 40 mm below H.P. and 35 mm behind V.P.
  - (d) Point D 30 mm below H.P. and 40 mm in front of V.P.
  - (e) Point E 45 mm above H.P. and in V.P. 20
2. (a) Describe various differences between first angle and third angle projection system. 10  
(b) Tabulate different types of lines, their notations and applications used in Engineering Graphics. 10

**UNIT-II**

3. A room is  $5 \times 4.5 \times 3.5$  m in size. Determine the distance between the top corner and bottom corner, diagonally opposite to it, by drawing the projections of the line joining the two corners. 20
4. A Pentagon of 30 mm side has one corner on H.P. Its plane is inclined at  $65^\circ$  to V.P. and perpendicular to H.P. Draw its projections. 20

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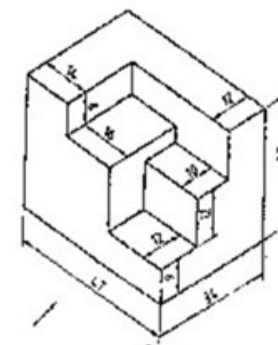
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**UNIT-III**

5. Draw the projections of a pentagonal prism of base 25 mm side and axis 50 mm long, when it is resting on one of its rectangular faces on H.P. The axis of the solid is inclined at  $45^\circ$  to V.P. 20
6. A square pyramid with side of base 30 mm and axis 50 mm long, is resting on H.P. with an edge of the base parallel to V.P. It is cut by a section plane, perpendicular to V.P. and inclined at  $45^\circ$  to H.P. The section plane is passing through the mid point of the axis. Draw the development of the surface of the cut pyramid. 20

**UNIT-IV**

7. Draw the following threads with some suitable pitch :
  - (a) B.S.W. thread
  - (b) Square thread
  - (c) Knuckle thread
  - (d) Acme thread. 20
8. Draw the front view, side view and top view of the object shown below following first angle projection system. 20



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