

Roll No.

Total No. of Pages : 02

Total No. of Questions : 08

**B.Architecture PIT (Sem.-1)**  
**ARCHITECTURAL DRAWING-I**  
**Subject Code : UC/BARCH-102/19**  
**M.Code : 77234**

Time : 4 Hrs.

Max. Marks : 40

**INSTRUCTIONS TO CANDIDATES :**

1. Attempt any ONE question from each UNIT.
2. Do not erase the construction lines.
3. Credit will be given for good drafting.
4. H.P. = Horizontal Plane, and V.P. = Vertical Plane.
5. Attempt FOUR questions in total.
6. Assume any missing and mention the same.

**UNIT-I**

- Q1. Draft the word "SECTION OF SOLIDS" in Block letters 6 cms High. (10)
- Q2. Draw a regular hexagon of side 5 meters on a scale of 1:50 and 1:100. (10)

**UNIT-II**

- Q3. A line AB, 90 mm long, is inclined at  $45^\circ$  to the H.P. and its top view makes an angle of  $60^\circ$  with the V.P. The end A is in the H.P. and 12 mm in front of the V.P. Draw its front view and find its true inclination with the V.P. (10)
- Q4. A  $30^\circ$ - $60^\circ$  set-square of 125 mm longest side is so kept that the longest side is in the H.P. making an angle of  $30^\circ$  with the V.P. and the set-square itself inclined at  $45^\circ$  to the H.P. Draw the projections of the set-square. (10)

**UNIT-III**

- Q5. A pentagonal pyramid, base 30 mm side and axis 60 mm long, is lying on one of its triangular faces on the H.P. with the axis parallel to the V.P. A vertical section plane, which bisects the top view of the axis and makes an angle of  $30^\circ$  with the vertical plane, cuts the pyramid, removing its top part. Draw the top view, sectional front view, true shape of the section. (10)

- Q6. A pentagonal prism, base 28 mm side and height 65 mm has an edge of its base on the H.P. and the axis parallel to the V.P. and inclined at  $60^\circ$  to the H.P. A section plane, having perpendicular to the vertical plane, and inclined at  $60^\circ$  to the horizontal plane and passing through the highest corner, cuts the prism. Draw the sectional top view and true shape of the section. (10)

#### UNIT-IV

- Q7. Draw the development of the surface of a hexagonal pyramid side of base 50 mm and vertical height 100 mm. (10)
- Q8. A vertical cylinder of 80 mm diameter is completely penetrated by another cylinder of 60 mm diameter their axes bisecting each other at right angles. Draw their projections, curves of penetration, assuming the axis of the penetrating cylinder to be parallel to V.P. (10)

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**