Roll No. ☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 08

B.Arch. (2012 & Onwards)   (Sem.–1)
ARCHITECTURAL DRAWING–I
Subject Code : BACH-103
M.Code : 45082

Time : 04 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. Attempt One Question each from Unit I, II(a),II(b) & III.
2. Assume data wherever necessary.
3. Choose suitable scale for drawings.

UNIT-I

1. a) How many types of scales are used for general Engineering Drawings as per SP- 46?
    (7.5)

    b) Construct a diagonal scale of R.F.3:200 to show meters, decimeters and centimeters and long enough to measure up to 6 meters and mark a length of 4.56 meters on it.   (7.5)

2. a) What are general rules of dimensioning? Explain in detail with the help of sketches.
    (7.5)

    b) Show by sketches the difference between :   (7.5)

        i) Continuous or chain dimensioning and

        ii) Progressive or parallel dimensioning. What are the advantages of one above the other?

UNIT-II(a)

3. A pentagonal plate of 45mm side has a circular hole of 40mm diameter in its centre. The plane stands on one of its sides on the H.P. with its plane perpendicular to V.P. and 45° inclined to the H.P. Draw the projections.   (12.5)

4. A hexagonal pyramid, base 25mm side and axis 50mm long, has an edge of its base on the ground. Its axis is inclined at 30° to the ground and parallels to the V.P. Draw its projections.   (12.5)

UNIT-II(b)

5.   A square prism, base 40 mm side, axis 80 mm long, has its base on the H.P. and it faces equally inclined to the V.P. It is cut by a plane, perpendicular to the V.P., inclined at 60° to the H.P. and passing through a point on the axis, 55 mm above the H.P. Draw its front view, sectional top view.   (12.5)

6.   A triangular pyramid, having base 40 mm side and axis 50 mm long, is lying on the H.P. on one of its faces, with the axis parallel to the V.P. A section plane, parallel to the V.P cuts the pyramid at a distance of 6 mm from the axis. Draw its sectional front view and the top view.   (12.5)

UNIT-III

7.   Draw the development of the lateral surface of the part P of the pentagonal pyramid shown in figure 1.   (20)

8.   A vertical square prism, base 50mm side and height 90 mm has a face inclined at 30° to the V.P. It is completely penetrated by another square prism, base 38 mm side and axis 100 mm long, faces of which are equally inclined to the V.P. The axes of the two prisms are parallel to the V.P. and bisect each other at right angles. Draw the projections showing lines of intersection.   (20)
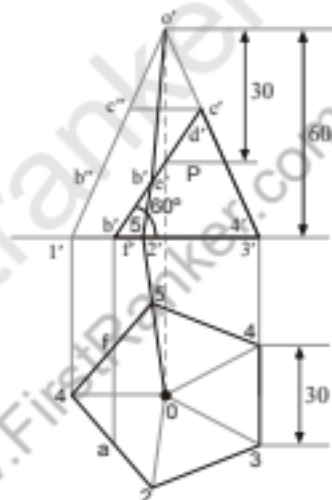
Figure 1

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.