



(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 181114**

Roll No.

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## B. Arch.

(SEM. I) (ODD SEM.) THEORY

EXAMINATION, 2014-15

**ARCHITECTURAL DRAWING - I**

Time : 3 Hours]

[Total Marks : 50

**Notes:**

1. Attempt all the questions.
2. All questions carry equal marks.
3. Weightage shall be given to neat and accurate drafting and printing.

1. Attempt any three of the following and write the procedure:
  - a) Draw a one complete turn of a thread having diameter 90 mm and pitch 40 mm.
  - b) Draw perpendicular OP to the inclined line AB which is inclined at 30° inclined to horizontal axis from outside point p.
  - c) Draw a line AB 70 mm long and divide it into 5 equal parts.
  - d) Trisect a right angle ABC.
  - e) Divide a circle of radius 30 mm into 12 equal parts.
2. Attempt any two:
  - a) Draw a regular hexagon whose one side is 50 mm long through inscribe circle method.
  - b) Inscribe a regular octagon in a circle whose diameter is 90 mm long.
  - c) Draw an ellipse through *OBLONG METHOD* whose major axis is 75 mm long and minor axis is 50 mm long.

3. A line AB 70 mm long has its end A 25 mm above the H.P. and 30 mm in front of the V.P. It is inclined at  $30^\circ$  to the H.P. and  $45^\circ$  to the V.P. draw its projection..

**OR**

A square ABCD of 60 mm side has its corner A which is nearest to the H.P. is 30 mm above the H.P, its diagonal AC inclined at  $45^\circ$  to the H.P. and diagonal BD inclined at 30 degree to the V.P. Draw its projections.

4. A cone of 80 mm diameter and 90 mm height stands on its base on the ground. A vertical plane perpendicular to H.P. and V.P. cuts the pyramid at a distance of 20 mm. from the axis. Draw:
- The top view
  - The sectional front view
  - Sectional side view
  - True shape of the section
  - Development of surface of the remaining part of the cone.

**OR**

A pentagonal prism of 40 mm sides axis 80 mm long has its base on the ground and edges of the base parallel to V.P. is cut by a section plane, perpendicular to V.P. and inclined at  $45^\circ$  to the H.P. draw:

- The top view
  - The sectional front view
  - Sectional side view
  - True shape of the section
  - Development of surface of the remaining part of the cone.
5. A vertical square prism base 40 mm and axis 80 mm having its faces equally inclined to the V.P, is completely penetrated by a horizontal cylinder whose diameter is 55 mm long , the axis which is parallel to the H.P.is 100 mm long . the two axis are 6 mm apart. Draw the projection showing curve of intersection.

**OR**

A vertical cylinder which is resting on the H.P. has 50 mm diameter and 80 mm axis is completely penetrated by another cylinder of 60 mm diameter and 100 mm axis , their axes bisecting each other at right angles. Draw their projections showing curves of intersection