**Printed Pages : 3**

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**AR-104**

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

**PAPER ID : 181107**

**Roll No.**

# B. Arch.

## (SEM. I) (ODD SEM.) THEORY EXAMINATION, 2014-15

## ARCHITECTURAL DRAWING-I

Time : **3** Hours] [Total Marks : **100**

Notes
i. Attempt all questions.
ii. Weightage to be given on neat and accurate drafting
iii. Assume any missing data.

1 Compose a cylinder( base 40mm dia axis 65mm) circle diameter 30 mm, cuboid (60x45x45) and a pentagonal pyramid (sides 30mm and 65mm height) in a rectangle of suitable dimensions and render it in tones, textures and shades of black white and grey.

2 Attempt any three
Draw the following geometrical construction and write the procedures in point
a) Construct an ellipse when the distance of the focus from the directrix is equal to 60 mm and eccentricity is 2/3.

b) Front view of a 75 mm long line measures 55 mm. the line is parallel to the H.P. and one of its ends is in the V.P. and 25 mm. above the H.P. draw the projection.
c) Construct a hexagon with in a circle of 10 mm diameter.
d) Construct an angle ABC 15°.
e) Draw a line parallel to a curved line.

3 Construct a diagonal scale of R.F. =1/5750 to read in meters upto 1 Km on it. Show a length of 578 m on it.

4 A square pyramid of base edge 35 mm and altitude 50 mm has one of its slant faces in the VP and the edge of the base contained by that face is inclined at 45° to the H.P. Draw the projections of the pyramid when the vertex is in the H.P.

**OR**

Draw the projection of a cylinder base 45mm diameter and axis 60mm long when it is resting on the ground on a point on its base circle with axis making an angle of 30° with H.P. and 45° to the V.P.

5 A cone base 60 mm diameter and axis 60 mm long lying on the H.P. on one of its generators with the axis parallel to the V.P. A vertical section plane parallel to the generator which is tangent to the ellipse (for the base) in the top view cuts the cone bisecting the axis and removing a portion containing the apex :

a) The top view
b) The sectional front view
c) Sectional side view
d) True shape of the section
e) Development of surface of the remaining part of the cone

**OR**

A pentagonal pyramid, base side 30 mm, length of axis 80 mm resting on the base edge on the H.P. with a triangular face containing that edge being perpendicular to the V.P. inclined to the H.P. at 60°. It is cut by a horizontal section plane whose V.T. passes through the midpoint of the axis. Draw

a) The top view
b) The sectional front view
c) Sectional side view
d) True shape of the section
e) Development of surface of the remaining part of the cone