

**BACHELOR OF ARCHITECTURE
FIRST YEAR FIRST SEMESTER EXAM 2018 (Old)
Architectural Graphics- I**

Time: 4 Hours

Full Marks: 100

Attempt all questions

1. Construct ellipses by the concentric method, given the two axes as follows: 15
Major axis - 80 mm. Minor axis – 45 mm.

2. Draw the projections of a thin circular plate of 50mm dia resting on the circumference, its plane inclined at 45° to the HP and 15
(a) The top view of the dia making 30° angle with the VP.

3. Draw the projections of a cube of 25 mm long edges resting on the ground on one of its corners with a solid diagonal perpendicular to the VP. 20

4. A right regular pentagonal prism, side of base 25mm and height 55mm, rests on its base with one of its base edges perpendicular to the V.P. and inclined to the H.P. at 60° , cuts the prism meeting its axis at a distance of 8mm from its top end face. Draw the front view, sectional top view and true shape of the section, of the cut prism. Also develop the surfaces of the truncated prism. 25

5. A right circular cylinder, diameter of base 45 mm and height 80mm, resting on its base in HP, is intersected by another cylinder of diameter 35 mm base. The axis of the penetrating cylinder is inclined to HP at 30° , is parallel to V. P. and cuts the axis of the vertical cylinder at midpoint. Draw the projections of the two cylinders showing the curves of intersection. Assume any suitable length of penetrating cylinder. 20

5 marks for neat drafting and cleanliness