

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE
End Semester Examination – DECEMBER - 2018

Course: B. Arch

Subject: Architectural Drawing and Graphics – I

Date: - 03 -12 -2018

Marks: 50

Sem.:- 1

Subject Code: - AR10100002

Duration: - 3 Hrs.

Instructions: - 1. The First question is compulsory.

2. Do not erase the construction lines.

3. Assume suitable data wherever necessary.

Q. No. 1 Solve any TWO of the following

10 Marks

- a) Inscribe a regular heptagon in a circle of diameter 80mm.
- b) Divide a straight line of length 100mm and divide it in 15 equal parts.
- c) Inscribe a regular Pentagon in circle of diameter 70mm.

Q. No. 2 Solve any ONE of the following

20 Marks

- a) Draw the projections of a cone, base 40mm diameter and axis 60mm long, when it is resting on the ground, on a point on its base circle with the axis making an angle of 30° with H.P.

OR

- b) A square pyramid, having base 50mm side and axis 70mm long, has its base on H.P. and its two sides (base sides) parallel to V.P. It is cut by a section plane, perpendicular to V.P. and inclined at 45° to the H.P. and bisecting the axis. Draw its sectional plan, elevations and true shape of section.

Q. No. 3 Solve any ONE of the following

20 Marks

- a) A hexagonal pyramid, of base 35mm side and axis 80mm long, resting on its base on the H.P. with its two sides (base sides) parallel to V.P. It is cut by two section planes, both perpendicular to V.P. The horizontal section plane cuts the axis at a point 40mm from apex. The other plane which makes an angle of 45° with H.P., also intersect the axis at the same point. Draw sectional plan, elevations and development of surface of the remaining part of the pyramid.

OR

- b) i. Draw the development of the surface of Pentagonal pyramid of side 30mm and axis 50mm long.
ii. Draw development of surface, of the cylinder having diameter 40mm and height 60mm.

***** End*****