

CS/B.ARCH/SEM-1/ARCH-106/2012-13
2012
ARCHITECTURAL GRAPHICS-I

Time Allotted : 3 Hours

Full Marks : 70

*The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words
as far as practicable.*

Answer *all* questions.

1. a) Construct a regular pentagon of 3 cm side using scale and compass only.

OR

- b) Construct an ellipse with two axes given as 6 cm and 4 cm.
2. a) A line *AB* 6 cm long lying 4 cm away from V.P. in such a manner that one end of *A* is 3 cm above H.P. and the line makes an angle of 30° with H.P. Draw its projections.

10

OR

- b) A line *AB* of 6 cm length makes an angle of 30° with H.P. and 60° with V.P. Draw its projections.
3. a) Draw projections of a regular hexagonal plane of side 5 cm which is placed vertically on H.P. and inclined at 45° with V.P.

15

OR

- b) A circular plane of 6 cm dia is placed vertically on H.P. and perpendicular to V.P. Draw its projections.
4. a) A circular cone of diameter 6 cm and height 14 cm is cut by a plane at a height of 6 cm at an angle of 30° with H.P. Find the projections.

15

OR

- b) Draw projections of a truncated cylinder of radius 3 cm and height 6 cm cut by a plane inclined at 45° to the ground. 15
5. a) A hexagonal pyramid of side 4 cm and length 14 cm is placed along its length at an angle of 30° with V.P. Find the projections.

OR

- b) A hexagonal cylinder of side 4 cm and length 14 cm is placed along its length at an angle of 30° with H.P. Find the projections. 15

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