

S.No. : 283

AR 1104

No. of Printed Pages : 04

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

PAPER ID : 10104

Roll
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B. Arch. Examination 2019-20

(Odd Semester)

ARCHITECTURAL DRAWING - I

Time : Three Hours

[Maximum Marks : 60

Note :- (i) Attempt all question in all the three sections.

(ii) Marks are indicated against each question.

(iii) Assume any missing data.

SECTION - A

1. Fill in the blanks :

8×1=8

(a) Writing of titles, notes etc. on a drawing is called

(b) The size of the letter is described by its

[P. T. O.]

- (c) Lines of hidden edges are drawn as
- (d) Drawings of buildings are drawn using scale.
- (e) projection is non recommended by the "Bureau of Indian Standards."
- (f) The size of A1 size paper is mm
× mm.
- (g) A hexagonal pyramid has faces.
- (h) A is a solid generated by the revolution of a semi-circle about its diameter as the axis.

SECTION - B

2. Attempt any three parts of the following questions :

$$4 \times 3 = 12$$

- (a) Inscribe a regular heptagon in a circle of 8 cm. radius and write steps of construction.
- (b) The major axis of an ellipse is 150 mm long and the minor axis is 100 mm long. Draw the ellipse using concentric circles method. Write steps of construction.

- (c) A square ABCD of 55 mm side has its corner A in the H.P. Its diagonal AC inclined at 30° to the HP and the diagonal BD inclined at 45° to the V. P. and parallel to H. P. Draw its projections.
- (d) A line AB, 75 mm long is inclined at 45° to the H. P. and 30° to the V. P. Its end B is in the H. P. and 40 mm in front of the V. P. Draw its projections.

SECTION - C

3. Attempt any two parts of the following : $20 \times 2 = 40$
- (a) A hexagonal pyramid, base 25 mm side and axis 50 mm long has an edge of its base on the ground. Its axis is inclined at 30° to the ground and parallel to the V. P. Draw its projections.
- (b) A square prism base 40 mm side, axis 80 mm long has its base on the ground and its faces equally inclined to the V. P. It is cut by a plane, perpendicular to the V. P., inclined at 60° to the H. P. and passing through a point on the axis, 55 mm above the ground. Draw its front view sectional top view and the true shape of the section.

[P. T. O.]

(c) A vertical cylinder of 80 mm diameter is completely penetrated by another cylinder of 60 mm. diameter, their axis bisecting each other at right angles. Draw their projections showing curves of penetration, assuming the axis of the penetrating cylinder to be parallel to the V. P.
