

S.No. : 2

AR 104

No. of Printed Pages : 04

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

PAPER ID : 0104

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B. Arch. Examination 2019-2020

(Odd Semester)

ARCHITECTURAL DRAWING - I

Time : Three Hours]

[Maximum Marks : 50

Note :- (i) Attempt all questions.

(ii) Marks are indicated against each questions.

(iii) Assume any missing data.

(iv) Calculators and geometry boxes are allowed during the examinations.

1. Fill in the blanks.

$2 \times 5 = 10$

(a) Drawings of buildings are drawn usingscale.

(b) The scale of chords is used to set out a measure.....

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- (c) Ancurve is a combination of two same curves in which the second curve has a reverse shape to that of the first curve.
 - (d) When the projectors are parallel to each other and also perpendicular to the plane the projection is calledprojection.
 - (e) When a drawing is done in 1 : 10 it is and when it is done in 10 : 1 it is
2. Attempt any three parts of the following : $5 \times 3 = 15$
- (a) Draw a diagonal scale of 1 : 5 showing centimeters and millimeters and long enough to measure 50 cm.
 - (b) Divide a line in 11 equal parts when the length of line is given to be 13 cm.
 - (c) A line AB, 65 mm long is inclined at 45° to the H.P. and 40 mm in front of V.P. Draw its projections and determine its traces.
 - (d) Draw a pentagon inscribed in a circle of radius 5 cm and write its steps of construction.

- (e) Draw a square, pentagon and octagon of base side 90cm in one figure by geometrical construction method. Also write down steps of construction.
3. Attempt any one parts of the following : $10 \times 1 = 10$
- (a) A regular pentagonal pyramid base 30mm side and height 80 cm rests on its base on the ground an edge of the base is parallel to the V.P. Draw its projection when the axis is parallel to the V.P.
- (b) Draw the projections of a heagonal prism of base edge 60mm and axis 95 in long and has its base on the ground and an edge of the base is parallel to V.P.
4. Attempt any one parts of the following : $15 \times 1 = 15$
- (a) A heagonal pyramid base 50mm side and axis 100 mm long is lying on the H.P. on one of its triangular faces with the axis parallel to the V.P. It is cut by a plane perpendicular to the V.P. and inclined at 30° to the H.P. and passing through the point on the axis 35mm above the ground. Draw its front view and sectional top view.

- (b) A cylinder of base radius 30 cm and height 75 cm is resting on the ground on its base is cut by a sectional plane parallel to V.P. and 10mm further away from the axis and V.P. Draw its sectional front view and top view.
