

# GEOMETRICAL AND BUILDING DRAWING

*(Maximum Marks: 100)*

*(Time allowed: Three hours)*

*(Candidates are allowed additional 15 minutes for **only** reading the paper.*

*They must **NOT** start writing during this time.)*

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*Answer **all** questions.*

*The intended marks for questions are given in brackets [ ].*

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**Read carefully the following notes before commencing:**

- (i) All dimensions are in millimetres.
- (ii) Drafting should be accurate, neat and clear.
- (iii) The drawing must be done in pencil, clearly dimensioned and annotated.
- (iv) Wherever dimensions are not given, adopt suitable dimensions.
- (v) Write your unique identification number (UID) and index number at the bottom right-hand corner of your paper.

## **Question 1**

**[30]**

Draw free-hand sketches to illustrate the following terms and give definitions:

- (a) Queen closer
- (b) Perpend
- (c) Frog
- (d) Stretchers
- (e) Quoin
- (f) Lap

**Question 2****[30]**

Differentiate between the following, with the help of sketches:

- (a) Corner window and Bay window.
- (b) Dormer window and Gable window.
- (c) Fixed window and Pivoted window.

**Question 30****[40]**

Draw to a scale of 1:25, the Plan, Elevation and Section of a door 2/3 glazed and 1/3 panelled to fit in an opening 1000 mm × 2100 mm. Assume all necessary and reasonable particulars. Show details of any one of the carpentry joints.