GEOMETRICAL AND BUILDING DRAWING

Maximum Marks: 80

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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***Question 1** is compulsory.*

*Answer **any two** questions from **Question 2, Question 3** and **Question 4**.*

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

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 [20]

Draw a free hand sketch showing a cross section of a window including sill and lintel.

Question 2 [30]

Draw the Plan of a Linear Staircase to 1:10 scale.
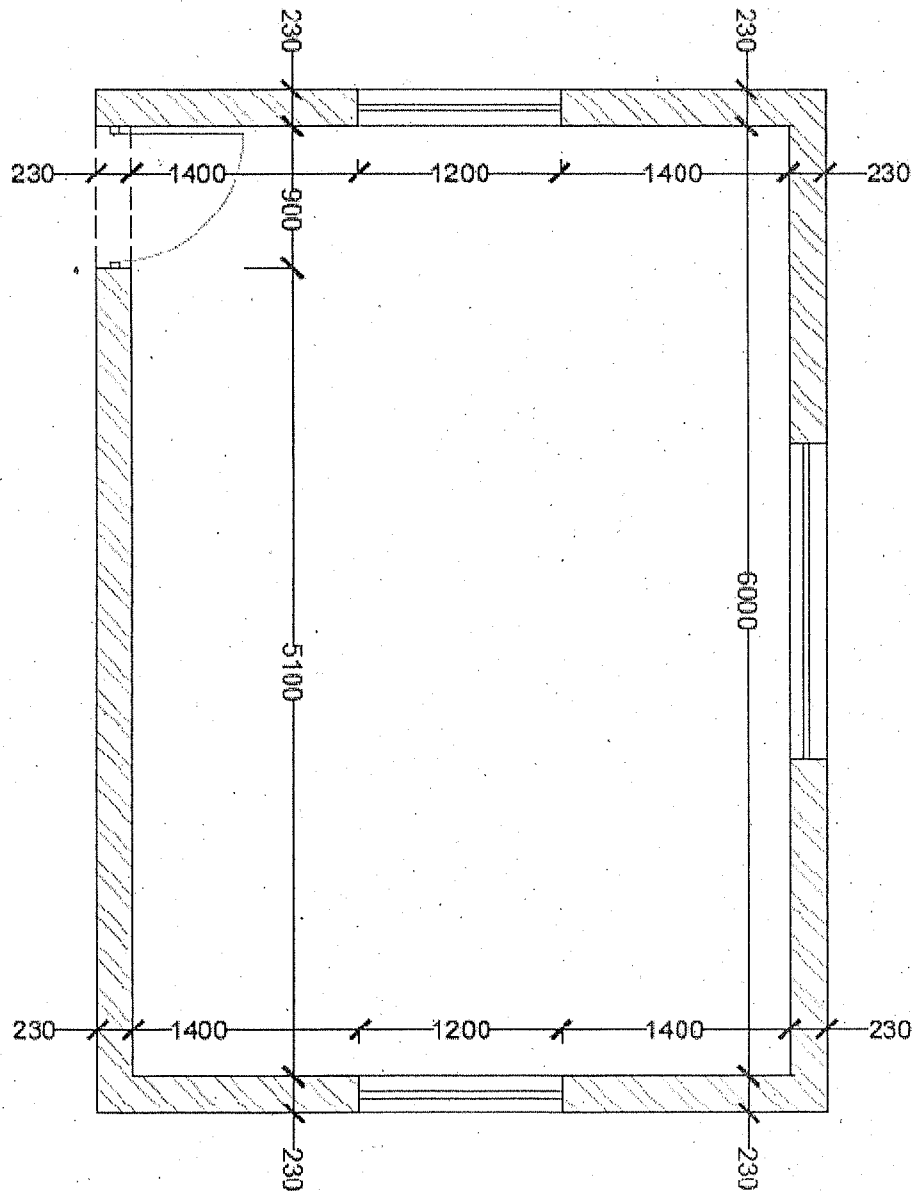Width of the staircase is 2000mm and height of the respective floor shall be 3300mm.
Calculate the number of Treads and Risers accordingly.

This Paper consists of 3 printed pages and one blank page.

Question 3

[30]

Draw any Section of the room as shown in the *Figure* given below, showing all the details from foundation to parapet wall to suitable scale. The section should indicate single storeyed buildings with flat RCC roof.

Figure

1223-870

Question 4   **[30]**

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

(i)   Flight

(ii)   Scotia

(iii) Plan arrangement of Herring Bone bond

(iv)   Coping

(v)   RCC Lintel