

5. Define following terminology used in perspective drawings:

- i) Station point
 - ii) Picture plane
 - iii) Centre of vision
 - iv) Line of sight.
- b) Enlist the postulates of the geometry of the perspective drawing.
 - c) Define both horizontal and vertical angles of vision.
 - d) Draw the parallel perspective with reference to plan and elevation of the simple object, cube.

OR

Draw the angular/oblique perspective with reference to plan and elevation of the simple object, cube.

Roll No

CE/FT - 305

B.E. III Semester

Examination, December 2014

Building Design & Drawing

Time : Three Hours

Maximum Marks : 70

- Note:** i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.
- ii) All parts of each questions are to be attempted at one place.
- iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.
- iv) Except numericals, Derivation, Design and Drawing etc.

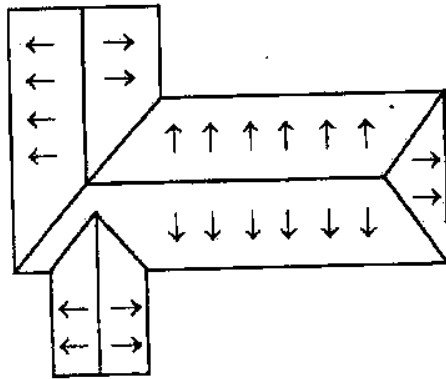
1. a) Define staircase and enlist its major components.
- b) Write expanded names of following abbreviations commonly used while writing general notes on drawings:

i) C.P.	ii) W.C.	iii) R.C.C.
iv) P.C.C.	v) G.L.	vi) C/C
vii) G.I.	viii) T.W.	
- c) Draw the working drawing of glazed and panelled or ventilated door.

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- d) Draw the details of wood work for a pitched roof, whose plan is as given in Figure. 1.



OR

Draw the details of wooden "King Post Truss" and "Queen Post Truss", showing the joints in detail.

2. a) Enlist different factors considered in building planning.
- b) What is meant by 'Unity' as one of the main principle of architectural composition?
- c) What do you understand by the term "Orientation of Building"?
- d) Explain followings:
 - i) Building line
 - ii) Set back
 - iii) Control line
 - iv) Approach

OR

Write short note on NBC.

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3. a) Define "Ventilation" and enlist its types.
- b) What are different types of sun-shading devices?
- c) How rooms of buildings are designed for Acoustics?
- d) Draw the neat sketch of dog-legged steel stair showing plan and different sections.

OR

Explain, how the building are designed for fire resistance?

4. a) Define following terms associated with residential buildings planning:
 - i) Apartment
 - ii) Cottage
 - iii) Dormitory
 - iv) Holiday camp.
- b) What are points considered prior to select any site for industrial plant?
- c) In any residential building; what are the essentials, which need consideration in grouping of dwelling unit?
- d) Plan and draw a detailed layout diagram for a clinic or health centre in rural area.

OR

Draw a layout for an office showing:

- i) Spacing of tables for a general office in a big hall and
- ii) Modular system of planning.