

GANPAT UNIVERSITY

B.Tech. Semester IV (Civil) (Regular, CBCS) Examination – May / June: 2012

2CI403: Building Construction

Max. Time: 3 Hours

Max. Marks: 70

Exam. No. of the candidate: _____

Instructions: - (1) Answer of the two sections must be written in **separate** answer books.

(2) Figures to the right indicate full marks.

(3) Assume suitable data if required.

Section - I

Q.1 (A) What are the different components of building? Describe in brief with sketch. (5)

(B) What are the various methods of sub soil exploration? Explain geophysical method. (6)

Q.2 (A) Define 'underpinning'. Enlist various methods of underpinning and briefly explain any one. (6)

(B) Differentiate clearly: King post and Queen post. Draw neat sketch. (6)

OR

Q.2 (A) Explain with neat sketch 'Revolving door' and 'Collapsible door' (6)

(B) Describe types of steps in stair with neat sketches. (6)

Q.3 Write short note on : (Any Three) (12)

(A) Soundness test for cement.

(B) Types of Lintels.

(C) Raft foundation.

(D) RSJ floors.

Section - II

Q.4 (A) Mention the advantages of steel windows over wooden windows. (5)

(B) Explain in detail 'Method of plate load test for determining the bearing capacity of a soil'. (6)

Q.5 (A) Describe the classification of different types of building as per National Building code India. (6)

(B) What do you understand by thermal insulation of building? Why it is necessary? Give its various advantages (6)

OR

Q.5 (A) State briefly the requirements of good stair-case. (6)

(B) Describe the different types of scaffolding. (6)

Q.6 Explain the following (Any Three) (12)

(A) Dog- ledged stair.

(B) Raking shore.

(C) Acoustical Materials.

(D) Cavity wall

END OF PAPER