

GANPAT UNIVERSITY
B. Tech. Semester: IV Civil Engineering
Regular Examination (CBCS) - April – June 2017
2CI403: Building Construction

Maxi. Time: 3 Hours

Max. Marks: 60

- Instruction:** 1. Answer to the two sections must be written in separate answer book.
 2. Figures to the right indicate full mark.
 3. Assume suitable data if required.

Section - I

- Que. – 1** (A) Write short note on R.C.C. stair with horizontally and longitudinally slab spanning. 5
- (B) Explain the method of constructing cement flooring. What is the use of granolithic finish and how is it made? 5
- OR**
- Que. – 1** (A) What do you understand by ribbed floor? Show the constructional details. 5
- (B) Plan a stair case for a residential building in which the vertical distance between each floor is 3.4mt. the size of the stair hall is limited 4.6 mt x 3mt. 3
- (C) Explain winder and nosing with the help of sketch. 2
- Que. – 2** (A) Define the following terms with sketch 5
 Jack rafter, wall plate, battens, cleat, and hip rafter.
- (B) Explain various defects in plastering. 5
- OR**
- Que. – 2** (A) Write short note on couple close roof. 5
- (B) What is pointing? Explain the types of pointing. 5
- Que. – 3** (A) List out the various method of damp proofing. Explain any one in detail. 5
- (B) Differentiate clearly between brick layer's scaffolding and mason's scaffolding. Draw typical sketch. 5

Section – II

- Que. – 4 (A) Explain the Seismic refraction survey for sub surface investigation. 5
(B) Describe the Raking Bonds with net sketch. 5

OR

- Que. – 4 (A) Explain the raft foundation with net sketch. 5
(B) Write down the salient features of English bond with neat sketch. 5

- Que. – 5 (A) Explain the Plate load test in detail. 5
(B) What is bearing capacity? Write the purpose of soil exploration. 5

OR

- Que. – 5 (A) Enlist the different types of arches according to shape. Discuss any two with sketch. 5
(B) Define any five 5
(1) Abutment (2) Intrados (3) Crown (4) King closer (5) Voussoirs (6) Bat
(7) Mortar

- Que. – 6 (A) Enlist the different types of windows. Discuss any one with sketch. 5
(B) Write down the causes for the failure of foundation. 5

END OF PAPER