

Date: 25/05/2016

Exam No: _____

GANPAT UNIVERSITY
B. TECH SEM- IV (CIVIL)

REGULAR EXAMINATION- APRIL-JUNE 2016

Subject Code and Name: 2CI403 BUILDING CONSTRUCTION

TIME: 3 HRS

TOTAL
MARKS: 60

- Instructions: (1) This Question paper has two sections. Attempt each section in separate answer book.
(2) Figures on right indicate marks.
(3) Be precise and to the point in answering the descriptive questions.

SECTION - I

- Q1 A Write a note on various components of a building. (with neat sketch) 05
B Explain any two methods of site exploration. 05

OR

- Q1 A Explain in detail, various types of loads coming on a structure? 05
B Enlist different types of shallow foundation. Explain any two with neat sketch. 05

- Q2 A Explain : Header, Stretcher, Course, Quoin & Bat 05
B Differentiate between English bond and Flemish bond. 05

OR

- Q2 A Describe with neat sketches Rubble Masonry and its types 05
B Describe cavity wall with neat sketch. What are its Advantages? 05

- A Describe the use of doors and ventilators. 02
B Describe any two with neat figures (elevation only) the following types of doors 04

- i. Framed and paneled Door
- ii. Bay Window
- iii. Pivot Window

- C Write a short note on: (Any two) 04
1. Number of trial pits and borings are required for a construction site.
 2. Setting out foundation trenches.
 3. Composite masonry construction.

SECTION - II

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|----|---|---|----|
| Q4 | A | Define the terms: Flight, Landing, Tread, Riser & Nosing. | 05 |
| | B | Give the classification of stairs in details. | 05 |
| OR | | | |
| Q4 | A | The stair hall of a public building measures 4.25m × 5.25m. The vertical distance between floors is 3.9m. Design a suitable stair for the building. | 05 |
| | B | Define the terms: Baluster, Going, Stringer, Newel Post & Pitch. | 05 |
| Q5 | A | What do you mean by Flat terraced roofing and discuss its advantages and disadvantages? | 05 |
| | B | State briefly the factors affecting the selection of flooring material. | 05 |
| OR | | | |
| Q5 | A | Define the following term with figure
Pitch, hip, valley, jack rafter & purlin. | 05 |
| | C | Explain the various types of pointing. (with neat sketch) | 05 |
| Q6 | A | Describe the following. (Any two) | 10 |
| | | 1. Scaffolding | |
| | | 2. Timbering in trenches. | |
| | | 3. Underpinning | |