

GANPAT UNIVERSITY**B. Tech. Semester: III Civil Engineering****Regular Examination November-December -2013****Subject: 2CI303 Construction Materials and Engineering Geology****Time:3 Hours****Total Marks: 70**

- Instruction:** 1 Answer to 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

- Que. - 1** A What is mountain? Classify the mountain and also give the Indian example. 06
 B Define the following term 06
 Petrology, Economical Geology, planets, hydrosphere, Coastlines, valley.

OR

- Que. - 1** A Explain the origin and structure of sedimentary rocks with neat sketch 06
 B i) What is clastic sediment? 03
 ii) Explain the structure of igneous rocks. 03

- Que. - 2** A What are the importance of geological investigation for site selection of dams 05
 B Define the term with neat sketch 06
 Strike, Anticline and Syncline, Hanging wall and Foot wall

OR

- Que. - 2** A What are the geological requirements for site selection of bridges? 05
 B i) What are the causes of folding? 03
 ii) Write a short note on Dip. 03

- Que. - 3** Answer the following
 A How the engineering geology takes an important role in civil engineering field? 06
 B Discuss Metamorphic rocks in detail. 06

Section - II

- Que. - 4** A What is meant by dressing of a stone? Describe its various varieties. 06
 B Describe various stages involved in the preparation of clay for the manufacture of bricks. 06

OR

- Que. - 4** A Define the terms: Lime, Quick Lime, Setting, Slaked Lime, and Slaking. 06
 B Explain with figure: Intermittent flame & flare kiln for lime. 06

- Que. - 5 A What are admixtures? Write down its advantages. 05
B Explain the various stages of concreting operation. 06

OR

- Que. - 5 A Explain cross section of timber with neat sketch. 06
B What is seasoning of timber? Enlist its objectives. 05
- Que. - 6 A What are the objectives of painting? Give characteristics of ideal paints. 06
B What do you mean by FRP? Give its properties and application in buildings. 06

END OF PAPER