

Student Exam No:

GANPAT UNIVERSITY
B.TECH SEM III CIVIL ENGINEERING
REGULAR EXAMINATION DEC- 2012
2CI303 CONSTRUCTION MATERIAL & ENGINEERING GEOLOGY

Time: 3 Hours

Max Marks: 70

Instructions: - (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

- Q1(A) Describe briefly the desirable qualities of good building stones. (6)
(B) Describe various stages involved in the preparation of clay for the manufacture of bricks (6)

OR

- Q1(A) Write a short note on defects in timber. (6)
(B) Explain with figure Continuous flame & flare kiln (6)
- Q2(A) What are the functions of various cement ingredients? (6)
(B) Define Concrete. Enlist various properties of concrete. (5)

OR

- Q2(A) Classify mortars based on kind of binding materials. (6)
(B) Enlist properties of glass and plastics. (5)
- Q3(A) What are the objectives of painting? Give characteristics of ideal paints. (6)
(B) Enlist various non-ferrous metals. Why Aluminum is evaluated as a good building material? (6)

SECTION – II

- Q4(A) What is the scope of geology in civil engineering? (6)
(B) Explain Gravity dam with examples. (6)

OR

- Q4(A) Define the term “Rock” Explain Magma. (6)
(B) Describe colour and Fracture with examples. (3)
(C) Define Building. Enlist various types of buildings and explain any one of them. (3)

- Q5(A) What is Fold? Explain types of folds. (6)
(B) Give Classification of Roads. Draw the typical road section and also write uses of road materials. (6)

OR

- Q5(A) Define: (a) Geology (b) Valley (c) Epicenter (6)
(B) Explain Optical Properties. (3)
(C) Write short note on: Metamorphic Rocks (3)

- Q6(A) Define Reservoirs. Explain Storage and Multipurpose Reservoir with their uses. (6)
(B) Enlist Nine Planets. (2)
(C) Give classification of the Clastic rocks based on grain Size. (3)

END OF PAPER