

GANPAT UNIVERSITY

B. Tech. Semester III - Civil Engineering

Regular Examination – November-December : 2011

C-303 CONSTRUCTION MATERIALS AND ENGINEERING GEOLOGY

Time: 3 Hours

Total 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

- 1 (A) What is seasoning of timber? explain the process of seasoning in detail (6)
 (B) What is "paint"? Give the properties of paints. (6)

OR

- 1 (A) What are the advantages, disadvantages, uses of Terra-cotta? (6)
 (B) Draw the cross-section of timber? (6)
 2 (A) Give the names, Types, and uses of commonly used stones in building construction in tabular form. (6)
 (B) Discuss the composition of cement, its properties and uses. (5)

OR

- 2 (A) Explain the term "cement concrete". Give the composition of RCC. (6)
 (B) What is workability? Which tests are carried out for workability? Explain any one in detail. (5)
 3 **Attempt the following questions.** (12)
 (A) Compare brickwork and stonework.
 (B) Enlist the good qualities of brick.
 (C) Define "quicklime", "slakelime", "fatlime" & calcinations?

Section – II

- 4 (A) Write a short note: "location of epicenter" & "cleavage of mineral". (6)
 (B) What are the three layers of earth? Enumerate the answer with neat sketch. (6)

OR

- 4 (A) Explain the different types of joints and faults. (6)
 (B) Explain: "Rayleigh waves", "Different types of road material". (6)
 5 (A) What are the various ways of resisting earthquake? (6)
 (B) Define the various classification of sedimentary rocks with e.g.? (5)

OR

- 5 (A) What is reservoir? what are the different types of reservoir (6)
 (B) What are the various geological processes? Define the types of erosion. (5)
 6 **Attempt the following questions.** (12)
 (A) What are the various applications of engineering geology?
 (B) Explain the different parts of fold with a neat sketch.