

THIRD SEMESTER B.TECH DEGREE EXAMINATION, NOVEMBER 2013.**(2009 Scheme)
CIVIL ENGINEERING****CE 09 304/PTCE 09 303 - BUILDING TECHNOLOGY- I****Time : Three Hours****Maximum : 70 Marks****PART A****Answer all Questions****5 x 2 = 10 marks**

I

- a. List out the various defects in timber.
- b. Write a short note on dressing of stones.
- c. What are plasticizers ?
- d. Differentiate between cornice and coping.
- e. What is meant by site plan ?

PART B**Answer any four Questions****4 x 5 = 20 marks**

2. Explain in detail on quarrying of stones.
3. Write short note on workability and segregation.
4. Explain alkali aggregate reaction.
5. What is meant by bearing capacity of soil ? List out and explain methods to improve bearing capacity of soil.
6. Write a short note on functional planning of buildings.
7. What are the different types of reinforcing steel used in building construction ? Explain.

PART C**Answer all Questions****4 x 10 = 40 marks**

8. a) Explain in detail the manufacture, properties and uses of plywood and fibre board.

(OR)

- b) With the help of flow chart explain the manufacture of cement in detail ?

9. a) Write short notes on :
 - i) Admixtures
 - ii) Shrinkage and Creep

(OR)

- b) Write short notes on :
 - i) Curing
 - ii) BIS method of mix proportioning

10. a) Differentiate between shallow foundation & deep foundation. Also add a short note on grillage foundation.

(OR)

- b) Explain in detail on types of stone masonry.

11. a) Explain in general functional requirements of public buildings as per KBC and NBC.

(OR)

- b) Write short notes on occupancy classification of buildings and working drawings.
