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CE - 404 B.E. IV Semester

Examination, June 2013

Construction Materials And Techniques

Time: Three Hours

Maximum Marks: 70/100

Attempt all questions. Note:

- Describe the qualities of good building stone. a)
 - Describe the manufacturing process of clamp burnt brick. b)

- Describe the defects of timber. a)
- b) Write short notes on:
 - i) Fly ash brick ii) Need for wood substitute.
- Describe the role of fly ash in concrete. Why fly ash have 2. a) large scope to use as civil engineering construction material.
 - b) Write short notes on:
 - i) Requirements of DPC material
 - ii) Requirements of flooring material

OR

- What are the merits and demerits of clay products in a) sanitary fitting?
- b) What are the merits and demerits of PVC doors and windows?
- c) Enumerate the industrial wastes, which can used in civil engineering construction material.

- a) Write short notes on:
 - i) Bearing capacity of soil ii) Soil stabilisation
 - iii) Under Reamed pile
 - b) What are the classification of foundation. Describe any one foundation in details.

OR

- a) Draw simple sketches of
 - i) Grillage foundation. ii) Brick arch foundation.
- b) What are the functions of foundation.
- c) How depth of foundation, decided.
- . a) Draw the plan of alternative course of 1½ brick wall with Flemish bond.
 - b) What is cavity wall? What are its advantages?
 - c) What are the merits hollow concrete block over brick?

OR

- a) What are the merits and demerits of English bond over Flemish bond in brick masonry wall?
- b) Write short notes on:
 - i) Function of plastering on wall ii) Types of stairs
- 5. a) What are the requirement of good thermal insulator?
 - b) Enumerate the various types of flooring. Describe comment concrete flooring in details.
 - c) What is reverberation time?

OR

- a) What are the merits and demerits of pitched roof over flat roof?
- b) Draw neat sketch of king post truss.
- c) What are the meaning of Echoes and Reverberation time?