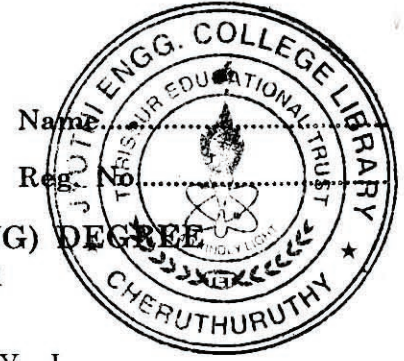


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THIRD SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, OCTOBER 2011

CE 09 304
PTCE 09 303 —BUILDING TECHNOLOGY—I

(2009 admissions)

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

- I. (a) What is meant by batching in concrete ?
(b) What is meant by creep in concrete ?
(c) What is meant by accelerators ?
(d) What is meant by Mortar ?
(e) What is meant by institutional buildings ?

(5 × 2 = 10 marks)

Part B

Answer any four questions.

- II. (a) What are the different tests conducted on stones ?
(b) What are the factors affecting strength of concrete ?
(c) Briefly explain shallow foundation.
(d) What are the test conducted on aggregates ?
(e) What type of water will be used for mixing and curing the concrete ? Explain why sea water is not suitable for this purpose.
(f) How do you classify the buildings ?

(4 × 5 = 20 marks)

Part C

- III. (a) What is meant by seasoning of timber ? Explain in detail with neat sketch.

Or

- (b) How the cement is manufactured by wet process ?

- IV. (a) What is the purpose of admixtures in the concrete ? What are differnt types of admixtures ?

Or

- (b) How the concrete can be made more durable and impermeable ?

Turn over

V. (a) What is raft foundation ? Explain in detail.

Or

(b) What are the advantages and limitations of masonry construction ?

VI. (a) What are the different types of floors and floor coverings ?

Or

(b) What are the causes of dampness ? Explain the methods to arrest the dampness.

(4 × 10 = 40 marks)