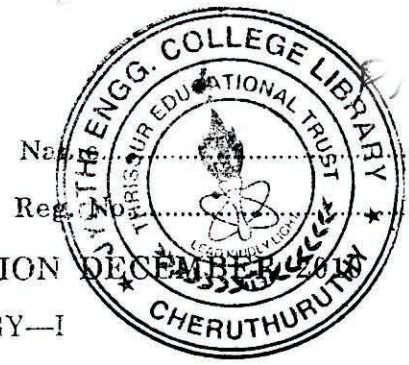


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THIRD SEMESTER B.TECH. DEGREE EXAMINATION

CE 09 304—BUILDING TECHNOLOGY—I

(2009 Admissions)

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

- I. (a) What are the chemical composition of cement ?
- (b) Define the work ability of concrete.
- (c) Differentiate between Shallow and Deep foundations ?
- (d) What is meant by Admixtures ?
- (e) What is meant by public buildings ?

(5 × 2 = 10 marks)

Part B

Answer any four questions.

- II. (a) How are the rocks physically and chemically classified ?
- (b) Define and explain workability of concrete by slump test.
- (c) Briefly explain pile foundation.
- (d) What are different types of roofs ?
- (e) What are the laboratory tests for cement ?
- (f) How do you classify the buildings ?

(4 × 5 = 20 marks)

Part C

- III. (a) What are the defects in timber ? Explain in detail with neat sketch.
Or
- (b) How the cement is manufactured by dry process ?
- IV. (a) What is the purpose of Admixtures in the concrete ? Write a short on Accelerating and Retarding Admixtures.
Or
- (b) What are the factors that affects the strength of concrete ? Discuss in detail.
- V. (a) What are different methods of improving bearing capacity of soil ?
Or
- (b) What are the advantages and limitations of masonry construction ?
- VI. (a) What are the different types of stairs ? Explain briefly.
Or
- (b) How do you select the site for building construction ?

(4 × 10 = 40 marks)