Second Semester (Civil) Midterm Examination (SPRING 2007)

Engineering Materials CE106

Time allowed: 2 hrs
Total Marks 50

Attempt all questions.

Q1: a) Define Portland cement. What are the main compounds of Portland cement? What are the types of Portland cement under the AST1W standard? (10)

b) Define lime. What are the properties of hydraulic lime? What is meant by artificial hydraulic lime? (10)

Q2 Discuss briefly (keeping in mind the desired qualities of a good concrete) (12)

Workability
Water cement ratio Gradation of aggregates

Q3: a) According to B.S what is the format size of a brick? What are the different grades of bricks? (5)

b) How will you find the compressive strength of a stone in the laboratory? (Compressive strength). (10)

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