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B.Tech. 3rd Semester (Civil Engg.) Branch-XI
Examination, December-2013
BUILDING CONSTRUCTION MATERIALS
Paper- CE-203-F

Time allowed : 3 hours] [Maximum marks : 100

Note : Question no. 1 is compulsory.

Each question carries equal marks (20 marks)

Students have to attempt five questions in total at least one question from each section.

1. Explain the following terms: 10×2=20
- (i) Dressing of stone
 - (ii) Requirements of partition wall
 - (iii) Bearing piles
 - (iv) Principle Rafter
 - (v) Sketch of Braced door
 - (vi) Principle of Water proofing
 - (vii) Fire fighting arrangement in a building
 - (viii) Perforated brick
 - (ix) Hydraulic lime
 - (x) Varnish

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Section-A

2. (a) Differentiate between English and Flemish Bond with neat sketch. 10
- (b) What is meant by cavity wall ? What are the advantages and disadvantages of using them ? 10
3. (a) Explain the different types of rubble masonry. 10
- (b) What is the difference between shallow foundation and deep foundation ? Explain. 10

Section-B

4. (a) Briefly explain the different types of rafter used in sloping roofs. 10
- (b) Briefly explain the consideration in selecting flooring material for ground floor. 10
5. (a) Discuss the location of doors, windows and ventilators building. 10
- (b) Classify the different types of windows with neat sketch. 10

Section-C

6. (a) What are the requirements of an ideal material for damp proofing ? 10
- (b) Explain the different methods adopted for making a basement waterproof. 10

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7. Distinguish between sound absorption and sound insulation. How do you insulate concrete floors ? 20

Section-D

8. (a) What is meant by seasoning of stones ? Why it is necessary ? 10
- (b) What do you understand by frog in a brick ? What purpose does it serve ? 10
9. (a) Explain in detail the process of manufacturing of ordinary portland cement. 10
- (b) Explain the properties of a good timber. 10