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Total Number of Pages : 01

B.Tech
PCCE4203

3rd Semester Back Examination 2019-20
BUILDING MATERIALS AND BUILDING CONSTRUCTION
BRANCH : CIVIL
Max Marks : 70
Time : 3 Hours
Q.CODE : HB964

Answer Question No.1 which is compulsory and any FIVE from the rest.
The figures in the right hand margin indicate marks.

- Q1 Answer the following questions : (2 x 10)**
- a) Write the nominal size of a modular brick?
 - b) Define mortar.
 - c) State quarrying of stones.
 - d) Define curing of concrete.
 - e) Write the names of the laboratory tests conducted for cement.
 - f) Mention four types of flooring commonly used in India.
 - g) Write the names of the materials used for plastering.
 - h) Define rubble masonry.
 - i) State rise and trade of stairs.
 - j) Define header and stretcher in brick masonry.
- Q2 a) Illustrate the important properties of cement. (5)**
b) Discuss the geological classification of rocks. (5)
- Q3 a) Mention the factors affecting workability of concrete. (5)**
b) Distinguish between segregation and bleeding of concrete. (5)
- Q4 a) Explain the general principles of construction of stone masonry. (5)**
b) Compare the merits and demerits of English bond and Flemish bond. (5)
- Q5 a) Illustrate the essential requirements of a good stair. (5)**
b) Explain the causes and prevention of cracks in building. (5)
- Q6 Describe the qualities of good bricks. (10)**
- Q7 Discuss about the various possible causes and effects of dampness in buildings (10)**
- Q8 Write short answer on any TWO : (5 x 2)**
- a) Hydration of cement
 - b) Spread foundations
 - c) Cavity walls