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Total Number of Pages : 01

B.Tech
PCI3I002

3rd Semester Back Examination 2019-20

CONSTRUCTION TECHNOLOGY

BRANCH : CIVIL

Max Marks : 100

Time : 3 Hours

Q.CODE : HB600

Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and any TWO from Part-III.

The figures in the right hand margin indicate marks.

Part-I

- Q1 Only Short Answer Type Questions (Answer All-10) (2 x 10)**
- a) Write the names of different construction materials commonly used.
 - b) Define bearing capacity of soil.
 - c) Define false work.
 - d) Write the use of admixtures in concrete.
 - e) What is ready-mix concrete?
 - f) What is pointing?
 - g) Define DPC.
 - h) State the names of equipment used in earthwork.
 - i) What is prestressed concrete?
 - j) State self-compacting concrete.

Part-II

- Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)**
- a) Discuss the functions of various components of a building.
 - b) What is meant by curing of concrete? Mention its purposes?
 - c) Differentiate between lightweight and heavyweight concrete.
 - d) Describe very briefly the various types of piles generally used for foundation.
 - e) Explain about high performance concrete.
 - f) Discuss about termite treatment in existing building.
 - g) What are the requirements of a good roof?
 - h) Explain about various types of fittings used in Plumbing system of a house.
 - i) Explain the need of construction joints in concrete work with neat sketch.
 - j) State the different causes of defects in buildings.
 - k) What are the requirements of good plaster?
 - l) Explain about preparation of report on maintenance work.

Part-III

- Q3 Only Long Answer Type Questions (Answer Any Two out of Four) (16)**
- Discuss the general principles for selecting a site for a building construction.
- Q4 (16)** What is meant by the non-destructive testing of concrete? Briefly describe the commonly used non-destructive testing methods for testing strength and quality of concrete.
- Q5 (16)** Define scaffolding. Name the various types of scaffoldings generally used. Describe any two in details with neat sketch.
- Q6 (16)** Explain in details about the purpose and methods of building maintenance and safety measures.