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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)

- Write the names of different construction materials commonly used.
- Define bearing capacity of soil.
- Define false work.
- Write the use of admixtures in concrete.
- What is ready-mix concrete?
- What is pointing?
- Define DPC.
- State the names of equipment used in earthwork.
- What is prestressed concrete?
- State self-compacting concrete.

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)

- Discuss the functions of various components of a building.
- What is meant by curing of concrete? Mention its purposes?
- Differentiate between lightweight and heavyweight concrete.
- Describe very briefly the various types of piles generally used for foundation.
- Explain about high performance concrete.
- Discuss about termite treatment in existing building.
- What are the requirements of a good roof?
- Explain about various types of fittings used in Plumbing system of a house.
- Explain the need of construction joints in concrete work with neat sketch.
- State the different causes of defects in buildings.
- What are the requirements of good plaster?
- Explain about preparation of report on maintenance work.

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

Q3 Discuss the general principles for selecting a site for a building construction. (16)

Q4 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. (16)

Q5 Define scaffolding. Name the various types of scaffoldings generally used. Describe any two in details with neat sketch. (16)

Q6 Explain in details about the purpose and methods of building maintenance and safety measures. (16)