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Total Number of Pages : 02

B.Tech
PCI31002

3rd Semester Regular / Back Examination 2018-19

CONSTRUCTION TECHNOLOGY

BRANCH : CIVIL

Time : 3 Hours

Max Marks : 100

Q.CODE : E722

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 Short Answer Type Questions (Answer All-10) (2 x 10)

- a) Why is DPC provided in buildings?
- b) What is the diversity factor that is used in estimating the power requirement for project implementation?
- c) Name two different ways of groundwater control.
- d) Which types of excavators are suitable for confined excavation?
- e) Name different hammers used in impact pile driving.
- f) What are the principle techniques of producing light weight concrete?
- g) Name two suitable materials for covering roofs.
- h) What is the purpose of providing facing?
- i) How backhoe differs from face shovel.
- j) Define the term Shotcrete.

Part- II

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

- a) What are the essential structural components of a building? Discuss the functional requirement of the superstructure to perform their primary objectives.
- b) What is the meaning of construction estimating? Describe the process of construction estimation of a project.
- c) Explain why temporary and falseworks are unavoidable in many cases. How temporary and falseworks escalate the project cost?
- d) What are the advantages of using steel sheet piles?
- e) Write the difference between end bearing pile and friction pile.
- f) Briefly describe some of the problems related to high temperature in hot weather concreting.
- g) Describe the three types of membranes used for roof water proofing.
- h) Describe the different kinds of glasses used for glazing purposes.
- i) What is the difference between a tractor and a bulldozer?
- j) How plastering differs from pointing.
- k) List out any six anti-termite measures in building construction work.
- l) Write short note on self compacting concrete.

Part-III

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

Q3 List out the different informations gathered from the construction work site during project site layout with a schematic diagram. **(16)**

Q4 Describe how a pile is load tested in situ. **(16)**

Q5 What are the common non-destructive tests carried out on hardened concrete? Explain any two of them. **(16)**

Q6 What are the causes, sources and defects of dampness in building **(16)**