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Total Number of Pages: 2

B.TECH
PCI31002

3rd Semester Regular Examination 2016-17
CONSTRUCTION TECHNOLOGY

BRANCH: CIVIL

Time: 3 Hours

Max Marks: 100

Q.CODE: Y577

Answer Part-A which is compulsory and any four from Part-B.
The figures in the right hand margin indicate marks.

Part – A (Answer all the questions)

Q1 Answer the following questions: (2 x 10)

- In mortar the binding material is _____
- The excavator most suitable for digging under water is _____
- At work statistical quality control of concrete means _____
- Grader is used for _____, _____ and trimming.
- The sizes of rain water pipes commonly used in house are _____
- Most commonly used solvent in oil paint is _____
- Soundness of cement is tested by _____ apparatus.
- The basic action involved in sheep foot roller is _____.
- Ultimate strength to cement is provided by _____
- In M30 grade cement, 30 represents _____.

Q2 Answer the following questions: *Short answer type* (2 x 10)

- What do you mean by water-cement ratio.
- What is the role of admixture in concrete?
- Define pitch and common rafters.
- What do you mean by pre-stressed concrete?
- State the various materials used for damp proofing.
- What is construction joint in concrete? What are they used for?
- What is meant by anti-siphonage pipe?
- Define grade of cement.
- State various types of binders used for plastering.
- What do you mean by ready-mix concrete?

Part – B (Answer any four questions)

Q3 a) Explain the various methods of piling. (10)

- b) Describe the method of pile load tests for the determination of its bearing capacity. (5)**

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- Q4 a)** Explain the methods of providing water proof terracing on RCC roof slab. **(10)**
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- b)** Write down the advantages and disadvantages of flat roofs. **(5)**
- Q5 a)** Explain how preconstruction and post construction anti- termite treatment is carried out? **(10)**
- b)** What are the functions of a crane? Enumerate different types of cranes. **(5)**
- 210 210 210 210 210 210 210 210
- Q6 a)** Explain the various methods of damp-proofing. **(10)**
- b)** What are the causes of dampness? **(5)**
- Q7 a)** Explain any one non-destructive method of test of concrete. **(10)**
- b)** What are the factors affecting selection of construction equipments? **(5)**
- 210 210 210 210 210 210 210 210
- Q8 a)** What are the points to be considered while selecting earthwork equipment? **(10)**
- b)** Explain different types of rollers. **(5)**
- Q9 a)** i) Write a note on various defects in plastering. **(10)**
ii) Describe various types of pointing.
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- b)** Explain with neat sketches types of pointing. **(5)**
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