

Seat No.	
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M.E. (Civil) (Construction & Management) (Semester-II)
Examination, May-2017

CONSTRUCTION TECHNIQUES

Sub. Code : 34324

Day and Date : Tuesday, 16-05-2017

Total Marks : 100

Time : 10.00 a.m. to 1.00 p.m.

- Instructions :**
- 1) Answer any three questions from each section.
 - 2) Figures to the right indicate full marks.
 - 3) Assume any other additional data if required and state it clearly.

SECTION-I

- Q1) a)** Describe the 'piping phenomena' in earthen dam and how to prevent the piping in earthen dam. [9]
b) Explain seepage control technique in earthen dam. [8]
- Q2) a)** Describe the design criteria of guide bunds. [9]
b) Describe the various factors considered while construction river training works. [8]
- Q3) a)** Define the "off shore structure". Explain the construction techniques any one type of off shore structure. [8]
b) Describe types of off shore structure and their maintenance. [8]
- Q4) a)** Write short note on [8]
i) free vibration ii) forced vibration
b) Write a detail note on "Effect of vibrations transmitted through soil". [8]

P.T.O.

SECTION -II

- Q5) a) Write short note on 'Transportation and erection in prefabricated construction'. [8]
- b) Explain in detail the importance of 'standardization' of building components in prefabricated construction. [9]
- Q6) a) Describe the special types of concrete. [8]
- b) Explain the concreting methods. Describe the mass concrete and its temperature control. [9]
- Q7) a) Enlist types of formwork and explain the 'slip form'. [8]
- b) Explain the cost aspects of formwork. [8]
- Q8) a) Describe the prevention of structure in various climatic conditions. [8]
- b) Explain in detail planning and field operation in steel construction. [8]

