Total	No.	of Pages	:	2	
-------	-----	----------	---	---	--

Seat No.

M.E. (Civil) (Construction Management) (Semester - II) Examination, April - 2016

CONSTRUCTION TECHNIQUES

Sub. Code: 34324

Day and Date: Tuesday, 26 - 04 - 2016

Total Marks: 100

Time: 10.30 a.m. to 01.30 p.m.

Instructions:

- 1) Attempt any three questions from Each section.
- 2) Figures to the right indicate full marks.
- 3) Draw neat diagrams wherever necessary.
- 4) Make suitable assumptions wherever necessary.

SECTION - I

- Q1) a) What are the various methods for the control of seepage though embanument? Explain with neat sketches any one method in detail. [9]
 - b) What is meant by 'piping' in earthen dams? enlist the various factors that are responsible for piping. [8]
- Q2) a) State and explain various parameters involved in the design of river training work.
 - b) Enlist the methods of river training and explain any one method in detail stating its suitability. [8]
- Q3) a) Define "offshore structures". Discuss the various types of offshore structures and explain the construction technique for any one type with neat sketches.
 - b) Write a short note on 'Bank protection techniques'. [6]
- Q4) a) Explain the design procedure for foundations subjected to vibrations.[10]
 - b) Write a detailed note on "Effects of vibrations transmitted through soil.[6]

SECTION - II

- Q5) a) State the importance of joints in prefabricated construction and explain with neat sketches. [10]
 - i) Beam to column connection
 - ii) Beam to slab connection
 - b) Write a detailed note on 'Transportation and erection in prefabricated construction. [7]
- **Q6)** a) What is meant by 'Guniting '? Explain how the 'guniting' is carried out. State the applications of guniting. [8]
 - b) What do you mean by 'prestressing'? Enlist various prestressing techniques. Explain any one method of prestressing in detail. What are the advantages of prestressing.

 [9]
- **Q7**) a) What are the different materials commonly used for formwork comment on their suitability, cost and durability. [8]
 - What is meant by 'slipform'? Explain with a neat sketch component and working of slipform. Discuss the major applications of slipform in construction projects.
- **Q8)** a) What are the different methods of erection of steel structures? Explain any one method in detail. [8]
 - b) Enlist various types of Retaining walls. Explain with neat sketches construction technique for any one type. [8]

* * *