

Seat No.	61.
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**M.Tech. (Civil-Construction and Management) CBCS
(Part-I) (Semester - II) Examination, May -2019
CONSTRUCTION METHODS AND TECHNIQUES
Sub. Code : 72725**

Day and Date : Saturday, 25 - 05 - 2019

Total Marks : 70

Time : 03.00 p.m. to 05.30 p.m.

- Instructions :
- 1) Q4 and Q8 are compulsory.
 - 2) Attempt any two questions from remaining in each section
 - 3) Figures to right indicates, full marks.
 - 4) Make suitable assumptions wherever necessary and mention them clearly.

SECTION - I

Q1) An underwater railway construction is to be constructed. Describe the various components and state the precautions to be taken while constructing. [10]

Q2) State the suitability of side slewing method of bridge girder erection. Describe with neat sketch procedures for same. [10]

Q3) Explain the components of coffer dams and describe its construction procedure. [10]

Q4) a) Discuss the problems encountered in underwater construction. [5]

b) Describe construction aspects of cable stayed bridges with neat sketches. [5]

c) Write a note on negative and positive skin friction. [5]

P.T.O.

SECTION - II

- Q5) Explain the fabrication techniques it's transportation system, erection and jointing. [10]
- Q6) Discuss the causes and effects of vibration transmitted through soil. [10]
- Q7) Describe the construction techniques of formwork an retaining wall. [10]
- Q8) a) Explain light weight panels with sketch. [5]
b) Write a note on free vibration and forced vibration. [5]
c) State the preservation techniques of structure in various climatic conditions. [5]

