Unit IV

- 7. (a) What are the advantages and disadvantages of steel structures over R.C.C. structures.
 - (b) Explain the various planning and design considerations to be undertaken for steel structures.8
- **8.** Explain the various techniques of fabrication and eraction of steel structures. Support your answer with relevant sketches and case-studies.

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M. Tech./MCRM EXAMINATION, May 2018

(First Semester)

(Re-appear Only)

CONSTRUCTION AND REAL ESTATE MANAGEMENT

MCRM609

Construction Technology

Time: 3 Hours [Maximum Marks: 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note: Attempt *Five* questions in all, selecting at least *one* question from each Unit. Make

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15

relevant sketches wherever necessary. Neatness carries due wightage.

Unit I

- 1. (a) Explain the team 'Foundation'? What is the purpose of providing foundations? 7
 - (b) What are the causes of failure of foundation and what method would you adopt to ensure the stability of the structure.
- What are the different types of piles that are used in high rise buildings?15

Unit II

3. Explain in detail the characteristics and uses of the following types of concrete: 15

2

- (a) Fibre reinforced concrete.
- (b) High performance concrete.

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4. (a) Explain the principles of concrete mix design as prescribed by BIS. 7

(b) Explain with the help of examples the various types of advance formwork techniques used in modern structures.

8

Unit III

- 5. (a) Explain the various principles and methods used in pre-cast construction techniques, with the help of examples.7
 - (b) State the difference between pretensioning and post-tensioning in concrete structures.
- 6. Write short notes on the following supported by relevant examples: 15
 - (a) Composite construction
 - (b) Pre-engineered structure.