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**MVCT/MBCT/MVCP-104****M.E./M.Tech. I Semester**

Examination, June 2017

**Construction Technology***Time : Three Hours**Maximum Marks : 70*

- Note:** i) Attempt any five questions.  
 ii) All questions carry equal marks.  
 iii) Assume missing data suitably.

1. Explain in detail the procedure of pavement construction by using Hot-Mix-Plant.
2. What types low cost construction techniques used for pavement construction? Explain each in detail.
3. What are the different types of connections used in steel construction? Explain with neat sketch.
4. What are the requirements of a good formwork? Discuss the advantages and disadvantages of different materials used for formwork.
5. What is a slip-form? Explain their suitability. List the durations recommended for removal of formwork.

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6. a) What are the various methods for erection of steel bridges? Describe any one in detail.  
 b) Write a brief note on prestressing of bridge girders.

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7. Explain the concepts of prestressing and its relative advantage over conventional reinforced concrete construction?
8. a) What do you understand by Shoring of foundation and Sinking of well?  
 b) List different types of Caissons and explain construction procedure of one of them.

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