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Roll No

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

Examination, June 2014

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

Note : Attempt any five questions. Assume suitably if any data is found missing or misprint.

1. a) Describe the functions of different components of a hot mix plant.
b) Describe the construction procedure of a pavement reinforced with fiber.
2. a) Describe the use of graders in road construction.
b) Discuss various qualities of a good formwork.
3. a) Define shoring and describe various types of shores.
b) Explain how the formwork is arranged in case of tall buildings.
4. a) Describe the erection process of chimney.
b) Distinguish between shop and in situ steel construction on the basis of their advantages and disadvantages.

5. a) Write a detailed note on clearance and tolerance in steel construction.
b) Explain the process of prestressing process of bridge girder.
6. a) Explain the general features of dome with prestressed ring beam.
b) Discuss various losses of prestressed concrete.
7. a) Describe some advanced techniques used in construction of high rise buildings.
b) Discuss various safety measures required in construction.
8. Write short notes on any four of the following:
 - a) High Strength Bolt.
 - b) Construction of Dam.
 - c) In situ Construction.
 - d) Removal of formwork.
 - e) Advanced compacting equipments.
 - f) Pre-tensioning and Post-tensioning System
