

MVCT-104

M. E. (CTM) (First Semester)
 EXAMINATION, Jan.-Feb., 2008
 CONSTRUCTION TECHNOLOGY
 (MVCT-104)

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 40

Note : Attempt any five questions. Assume suitable data if any.

1. (a) Describe various low cost road construction techniques and the materials used for construction. 10
 (b) Describe in detail "Hot Mix Plant". 10
2. (a) Discuss the design criteria of temporary structures. 10
 (b) Compare the stationary and slip form work. 10
3. (a) Describe the construction of Concrete Road in detail. 10
 (b) Describe the construction of Bridge using slip form. 10
4. (a) Differentiate between shop and in situ construction. 10
 (b) Describe in detail the Erection of Trusses. 10

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5. (a) What are different techniques of Prestressing ? 10
 (b) Describe the prestressing of a bridge girder. 10
6. (a) What are the safety measures to be considered in the construction of tunnels ? 10
 (b) Describe the construction of "High Rise Building". 10
7. (a) What is the importance of clearances and tolerances ? 10
 (b) What are different losses in Prestressing ? 10
8. Write short notes on any two of the following : 10 each
 - (a) Fibre reinforced pavement
 - (b) Stripping and Removal of form works
 - (c) Connections in Steel construction
 - (d) Pavement construction using bitumen