

Roll No. DDCE131417

MVCT/MBCT/MVCP - 104

M.E./M.Tech. I Semester

Examination, December 2013

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) What are the various advanced techniques used in concrete pavement construction? Describe slip form paving technique in detail.
b) Discuss how the cost of road construction is lowered by different techniques.
2. a) Describe the functions of different components of a hot mix asphalt plant.
b) Compare the conventional and industrialized formwork.
3. a) Distinguish between stationary and slip formwork.
b) Discuss various precautions required in removing the formwork.
4. a) What are the advantages and disadvantages of shop and insitu steel construction?
b) Explain the erection process of a Truss.

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5. a) Write a detailed note on High Strength Steel Bolt.
b) What are the various techniques of prestressing? Explain any one in detail.
6. a) Write a detailed note on prestressing plant.
b) Discuss various losses of prestressed concrete.
7. a) Discuss various safety measures adopted in construction work.
b) Describe some advanced techniques used in construction of dam.
8. Write short notes on any four of the following:
 - a) High rise buildings.
 - b) Pretensioning and Post tensioning Systems.
 - c) Clearance and tolerance in steel structures.
 - d) Insitu Construction.
 - e) Advanced Compacting Equipments.
 - f) Laying heavy pipe lines.
