

**MVCT - 104**  
**M.E./M.Tech., I Semester**  
Examination, June 2013  
**Construction Technology**  
*Time : Three Hours*

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**Note:** Attempt any five questions. All questions carry equal marks.

1. a) Explain in detail Marshall method of Bitumen Mix design.  
b) State and explain merits & demerits of Rigid & Flexible Pavement.
2. a) Explain in detail the slip form techniques for the construction of towers.  
b) Describe with neat sketches the construction procedure of an inter tank using slip form work.
3. Write a detail note on "Impact Factor", "Wind load", "longitudinal forces", centrifugal forces for bridges.
4. Explain in detail with neat sketches different type of steel connections? State their relative merits & demerits.
5. a) Write Basic assumptions for prestressed concrete.  
b) Explain in detail merits and demerits of prestressed concrete.

6. Discuss the construction techniques for the following structures.
  - a) Off shore platforms.
  - b) Pipelines
  - c) Large spanroofs
7. Explain the prestressing techniques of Bridge girders, and water tank.
8. Write short notes-
  - i) Safety measures in construction.
  - ii) Joints in rigid pavements.
  - iii) Equipment for ready mix concrete
  - iv) Low cost road construction technique
  - v) Fibre reinforced pavement construction

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