

Roll No .....

**MVCT/MVCP-301(A)**

**M.E./M.Tech., III Semester**

Examination, December 2016

**Advance Highway Construction (Elective-I)**

**Time : Three Hours**

**Maximum Marks: 70**

- Note :** i) Attempt any five questions.  
ii) All questions carry equal marks.  
iii) Assume suitable data if necessary.

1. Give the classification of types of highway construction.
2. Discuss the following:
  - a) Stone Soiling
  - b) Brick Soiling
3. Briefly discuss the following interface treatments:
  - a) Prime Coat
  - b) Tack Coat
4. How is quality control attained in bituminous construction?
5. What is the necessity of providing a base course under cement concrete road construction? Also discuss the following:
  - a) Dowel Bars
  - b) Tie Bars

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6. Discuss the followings :
  - a) Classification of Various Types of Joints
  - b) Necessity of Providing each Type
  - c) Method of construction of Joints
7. Discuss the following:
  - a) Prestressed concrete pavements
  - b) Fiber reinforced concrete pavements
8. Discuss the use of CPM and PERT in Highway construction

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