

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

[2]

Roll No

MVCT/MVCP-301(A)**M.E./M.Tech., III Semester**

Examination, November 2018

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 missing data suitably.

1. a) Write classification and types of highway construction under Indian conditions. 7
 b) List out the field and laboratory tests for quality control. 7
2. a) Describe the Construction procedure for water bound macadam road. 7
 b) Describe the Construction procedure for earth road? 7
3. a) List out and explain about materials required for highway construction briefly. 7
 b) Explain about Bituminous Concrete. 7
4. a) Write Properties and requirements of bituminous material. 7
 b) Explain the construction procedure of cement concrete road. 7

MVCT/MVCP-301(A)

PTO

310

5. a) Necessity of providing a base course under cement concrete road construction. 7
 b) Classify the types of joints used in cement concrete road and explain. 7
6. Explain
 a) Dowel bars 5
 b) Tie bars 5
 c) Joints filler 4
7. a) Explain the construction procedure for Prestressed concrete pavements. 7
 b) Necessity of providing reinforcement in cement concrete pavements. 7
8. Define CPM and PERT. Discuss the necessity used in highway construction. 14

MVCT/MVCP-301(A) 311