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Roll No

MVCT-301(A)

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

Examination, June 2014

Advance Highway Construction (Elective-I)

Time : Three Hours

Maximum Marks: 70

- Note:** i) Total number of questions eight. Attempt any five questions.
ii) Assume missing data, if any, suitably.

1. Discuss the methods of earth excavation for Road construction and the uses of various equipments.
2. Briefly list the method of construction of Gravel roads.
3. What are the various types of bituminous construction in use? Discuss the advantages and limitation of each.
4. Describe construction procedure of cement concrete pavement in details.
5. Explain the properties of joint filler and sealer materials. Name different materials and describe any two of them.
6. Discuss the uses and limitations of reinforced cement concrete and prestressed concrete pavements for highway.

7. Write details notes on the followings:
 - i) PERT in highway construction.
 - ii) CPM in highway construction.
8. Write short notes on any four of the followings:
 - i) IRC specification
 - ii) Prime coat and seal coat
 - iii) Soil stabilization
 - iv) Interface treatment
 - v) Steps for the preparation of sub grade
 - vi) Selection of soils

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