

Roll No

MVCT/MVCP-302(A)

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

Examination, December 2016

Advanced Dam Design and Construction (Elective-II)

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. What are the various forces acting on a dam?
2. Discuss the evolution of the profile of a Dam by Method of Zones.
3. Briefly explain the design of Ogee Spillway Section.
4. Briefly discuss :
 - a) Hoisting Machines
 - b) Bucket and Energy Dissipation Arrangements
5. Define an Arch Dam. What are the various classifications of Arch Dams.
6. Discuss the following :
 - a) Inclined Arches
 - b) Trial load Analysis
 - c) Dome-Dams

7. Discuss the following :
 - a) Stability of Slopes
 - b) Protection of Slopes
 - c) Pore Pressure
8. Give an account of the use of Electrical Analogy Method in the Design of Dams.
