

CE553: Earth and Rockfill Dam

End Semester Examination

Time: 2 hours

Marks: 50

Answer all the questions. All questions carry equal marks.

1. What is the importance of geology in selection of a suitable site for dam?
2. Briefly discuss the laboratory compaction test for cohesive soils.
3. With the help of a sketch, show different components of a zoned dam.
4. Briefly discuss the deformation of earth dams due to dead loads.
5. What is freeboard? How do you decide the freeboard in an earth dam?
6. Briefly discuss the filters in earth dam. How do you find the dimension of filters?
7. Describe the placing and compaction of natural construction materials during construction of earth dams.
8. What are embankment defects?
9. How do you determine the capacity of reservoir?
10. Describe the role of instrumentation in the safety of a dam.

25/04/2022 E