

Code: CE8T4C

**IV B.Tech - II Semester – Regular / Supplementary Examinations  
July -2021**

**WATERSHED MANAGEMENT  
(CIVIL ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

**PART – A**

Answer *all* the questions. All questions carry equal marks

11 x 2 = 22 M

1.

- a) What is the need of Watershed Development?
- b) List out Factors that affect Watershed Management.
- c) What are the consequences of Soil Erosion?
- d) List out the climatic factors that influence the Erosion.
- e) What are the advantages and disadvantages of Rainwater Harvesting.
- f) List out various Rainwater Harvesting Methods.
- g) State soil moisture conservation techniques.
- h) Explain Reclamation of saline and alkaline soils.
- i) Explain about Silvi pasture.
- j) List out the administrative requirements to manage the watershed.
- k) What is the role of ICRISAT in Watershed Management?

## PART – B

Answer any **THREE** questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) Explain in detail about the integrated watershed management approach. 8 M
- b) Explain in detail about Characteristics of Watershed. 10 M
3. a) Explain types of erosion in detail. 8 M
- b) Explain briefly about Contouring Techniques to control the soil erosion. 8 M
4. a) What are harvesting structures? Explain any three in detail with figures. 8 M
- b) Explain in detail the methods used for artificial recharge. 8 M
5. a) Explain Inter, Mixed and Strip cropping. 8 M
- b) Explain horticulture, social forestry and afforestation. 8 M
6. a) Explain Watershed Management Activities with a Case Study. 8 M
- b) Bring out the importance of people's participation in the preparation of action plan and management activities of watershed. 8 M