

Code: CE8T4C

IV B.Tech - II Semester - Regular Examinations - March 2018

**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 evaporation and evapotranspiration?
- b) Define any two characteristics of Watershed.
- c) Define universal soil loss equation.
- d) List out different types of soil erosion.
- e) Write a short note on brushwood dam and Gabion.
- f) What are the various types of rain water harvesting?
- g) Write a short note on artificial recharge.
- h) Write a brief note on cropping pattern.
- i) Define silvipasture and social forestry.
- j) Write a brief note on project implementation agencies.
- k) Bring out the role of peoples participation in watershed management.

PART – B

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

3 x 16 = 48 M

- 2.a) Explain the need of Watershed management in India. 8 M
- b) Discuss about multidisciplinary approach of watershed management. 8 M
3. Explain measures to control soil erosion. 16 M
4. Where are the saline soils widespread? What are the reclamation measures of the soils? Explain in detail. 16 M
- 5.a) Illustrate new methodologies adopted in horticulture. 7 M
- b) Write short notes on following terms
- (i) Afforestation 3 M
 - (ii) Farm forestry 3 M
 - (iii) Horticulture 3 M
- 6.a) Discuss about components of Watershed action plan. 8 M
- b) Explain about government projects on watershed management. 8 M