

Code No: RT41358

**R13**

**Set No. 1**

**IV B.Tech I Semester Regular/Supplementary Examinations, Oct/Nov - 2018**

**WATERSHED MANAGEMENT**

**(Agriculture Engineering)**

**Time: 3 hours**

**Max. Marks: 70**

*Question paper consists of Part-A and Part-B*

*Answer ALL sub questions from Part-A*

*Answer any THREE questions from Part-B*

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**PART-A (22 Marks)**

1. a) What do you mean by watershed management? [3]
- b) What are the important watershed factors to be considered in watershed management? [3]
- c) List out the climatic factors that influence the Erosion. Explain them. [4]
- d) What are the benefits of RWH? [4]
- e) Write a short note on Reclamation of saline and alkaline soils. [4]
- f) Explain social forestry and afforestation. [4]

**PART-B (3x16 = 48 Marks)**

2. a) Describe watershed deterioration and its consequences. [8]
- b) Discuss watershed approach –planning, implementation & management. [8]
3. a) Give a brief explanation on hydrology and socio-economic characteristics of watershed. [8]
- b) Write a short on Watershed delineation. [8]
4. a) Explain types of erosion in detail. [8]
- b) Explain in detail the Contour techniques to control Erosion. [8]
5. What are harvesting structures? Explain any three in detail with figures. [16]
6. Define land capability. Explain classification of land under several categories and their purpose. [16]
7. a) Write a short on the agri-horticulture cropping patterns and afforestation. [8]
- b) Bring out the importance of people's participation in the preparation of action plan and management activities of watershed. [8]