

320850(20)

B. E. (Eighth Semester) Examination, 2020

(New Scheme)

(Civil Engg. Branch)

WATER SHED MANAGEMENT

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. Part (a) of each question is compulsory. Solve any two from part (b), (c) and (d).

Unit-I

1. (a) Define watershed and explain it with neat sketch. 2
- (b) What are the important characteristics of watershed?
Explain with neat sketches. 7

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- (c) What do you mean by water requirement of crops?
Discuss the factors affecting the water requirement
of crops. 7
- (d) What are the various of soil? Discuss their availability
in various regions of India. 7

Unit-II

2. (a) What do you mean by land capability? 2
- (b) What are the various objectives of land capability
classification? 7
- (c) Explain the land capability classification by a neat
sketch. 7
- (d) Enlist and explain various types of Burveys carried
out for a watershed. 7

Unit-III

3. (a) Define soil erosion. 2
- (b) What are the various types and causes of soil
erosion? 7

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- (c) Define water harvesting. Explain the methods of water harvesting with neat sketches 7
- (d) Discuss the agronomical measures in soil and water conservation. 7

Unit-IV

4. (a) Discuss the watershed management and its benefits. 2
- (b) Explain the role of people participation in watershed management. 7
- (c) What is the importance of socio-economic analysis of watershed management projects? 7
- (d) Describe various application of GIS in watershed management. 7

Unit-V

5. (a) Why slope conservation is required? 2
- (b) What are the methods available for hill slope conservation? Explain. 7

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(c) Explain the causes of bad land in watershed. 7

(d) Write a detail note on bad land development. 7