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Total No. of Printed Pages: 1

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B.Sc. (Hons.) Agriculture (Semester – 6th)
RAINFED AGRICULTURE & WATERSHED MANAGEMENT
Subject Code: BAGRS1651
Paper ID: [19130155]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- a) What are the objectives of watershed development?
- b) Differentiate between dry farming and dryland farming.
- c) Describe suspension and saltation modes of soil movement through wind erosion.
- d) What are the major limitations in crop production in dryland areas?
- e) Briefly discuss the different forms/types of water erosion.
- f) Differentiate between aridity and drought.
- g) What are the early indicators of drought in India?
- h) List the factors affecting soil erosion.
- i) What are the consequences of watershed deterioration?
- j) Describe how tillage practices help in moisture conservation in agriculture.

Section – B

(5 marks each)

- Q2. Describe the principles of watershed management.
- Q3. Discuss the commonly used soil and water conservation techniques?
- Q4. Discuss the water management approaches for rainfed areas.
- Q5. Discuss the problems and constraints in watershed management.
- Q6. Discuss the different techniques of drought mitigation.

Section – C

(10 marks each)

- Q7. Discuss the problems or constraints for crop production in dry farming regions.
- Q8. Discuss the different water harvesting techniques in detail. Draw the diagrams wherever possible.
- Q9. Describe the different types of drought? Also discuss the effects of drought on agricultural production.