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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Agriculture)(Sem.–6)

RAINFED AGRICULTURE AND WATERSHED MANAGEMENT

Subject Code : BSAG-601-19

M.Code : 91792

Date of Examination : 01-07-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :
 - a. Dryland farming
 - b. Watershed
 - c. Erodibility
 - d. Sheet erosion
 - e. Anti-transpirant
 - f. Wind breaks
 - g. Shelterbelts
 - h. Rain water harvesting
 - i. Rainfed farming
 - j. Mulch.

SECTION-B

2.
 - a) In spite of abundance of water, why significant portion of land on earth is considered dryland?
 - b) In spite of adequate annual rainfall, why productivity of crops in many parts of the country is low?
3.
 - a) Why is rainfall so important for crop production?
 - b) Enlist 4-5 main characteristics of crops for their better adaptability under dryland and rainfed conditions.
4.
 - a) Name two national and two international institutes along with the location related to rainfed/dryland agriculture.
 - b) What is the role of Kanitkar and Tamhane in dryland farming?
5.
 - a) Do you agree that dryfarming, dryland farming and rainfed farming are synonymous?
 - b) What are in-situ land and water conservation practices?
6. Effect of moisture stress on respiration.

SECTION-C

7. Comment (write agreed/disagreed only; rewrite correctly' if disagreed)
 - a) India is rich in biodiversity.
 - b) Both aridity and drought are caused by insufficient moisture.
 - c) Temperature is more important factor than wind velocity for crop growth.
 - d) In rainfed conditions, pora method of sowing is preferred than kera.
 - e) All the deserts have extremely high temperatures.
8.
 - a) Enlist the interventions required for Normal onset of monsoon followed by long gap between subsequent rains.
 - b) Enlist the steps required to increase the runoff of water in catchment area.
9. Discuss the various components of water harvesting.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.