

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester	: III (New)	Term	: First	Academic Year	: 2023-24
Course No.	: AGRO 235	Title	: Rainfed Agriculture and Watershed Management		
Credits	: 2 (1+1)				
Day & Date	: Wednesday, 6.12.2023	Time	: 9:00 to 11:00 hrs.	Total Marks	: 40

- Note :
1. Solve ANY EIGHT questions from SECTION 'A'.
 2. All questions from SECTION 'B' are compulsory.
 3. All questions carry equal marks.
 4. Draw neat diagram wherever necessary.

SECTION 'A'

- Q.1 Write in brief about agronomic measures for soil and water conservation in rainfed agriculture.
- Q.2 Define water harvesting and explain in detail about different techniques of water harvesting for semiarid region.
- Q.3 Define drought. Give classification of drought and explain agriculture drought.
- Q.4 What is rainfed agriculture? What are the constraints associated with crop production under rainfed areas in India?
- Q.5 Define watershed. Enlist different principles of watershed management.
- Q.6 Define antitranspirant. Describe the different types of antitranspirants.
- Q.7 Explain in brief about crop adaptation to drought.
- Q.8 Give the important events in the history of rainfed agriculture.
- Q.9 Suggest crop management options to mitigate the adverse effect of aberrant weather conditions.
- Q.10 Write short notes on (Any Two):
- a) Dry land farming and rainfed farming
 - b) Package of practices for management of crops in rainfed areas
 - c) Factors affecting watershed management

SECTION 'B'

- Q.11 Define the following terms:

- 1) Mulching 2) Intercropping 3) Ephemerals 4) Vegetative barriers

- Q.12 Fill in the blanks:

- 1) _____ bunding is suitable for moisture conservation in low rainfall area.
- 2) Broad bed furrow is evolved by an institute, situated at _____.
- 3) Maharashtra receives 95 % of its annual rainfall from the _____ monsoon.
- 4) _____ soils are black and soft with high clay content (30-70 %), undergo pronounced shrinkage during drying, resulting in large cracks.

