

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Hons.) Agriculture

Semester	: III (New)	Term	: I	Academic Year	: 2019-20
Course No.	: AGRO 235	Title	: Rainfed Agriculture and Watershed Management		
Credits	: 2 (1+1)				
Day & Date	: Friday, 08.11.2019	Time	: 09.00 to 11.00	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 diagrams wherever necessary.

SECTION "A"

- Q.1 Explain various strategies to mitigate the drought in rainfed agriculture.
- Q.2 Explain various techniques of soil and water conservation in rainfed farming areas.
- Q.3 Explain various problems associated with crop production in rainfed farming.
- Q.4 Write in brief the history of rainfed agriculture.
- Q.5 What is drought? Give classification of drought and explain the classification based on sources of water availability.
- Q.6 Define water harvesting and explain in detail different methods of water harvesting.
- Q.7 What do you mean by 'Crop adaptation'? Write in short about various mechanisms in plant for conserving water under drought conditions.
- Q.8 Define watershed management. Write in short concept and state different principles of watershed management.
- Q.9 What is rainfed agriculture? Differentiate between dryland farming and rainfed farming.
- Q.10 Write short notes. (Any Two).
 - a) Factors affecting watershed management
 - b) South-West Monsoon
 - c) Contingent crop planning

SECTION "B"

- Q.11 Define the following terms.
 - 1) Dry farming
 - 2) Mulch
 - 3) Cropping pattern
 - 4) Strip cropping
- Q.12 Fill in the blanks.
 - 1) The Dry Land Research Station in Maharashtra is located at _____.
 - 2) The average annual rainfall of India is _____.
 - 3) The plants which complete their life cycle within a short period are called _____.
 - 4) _____ is an area from which rainfall is collected and drains through a common point.

