MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE

SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester	: III	Term	: First	Academic Year	: 2024-25
Course No.	: AGRO 235	Title	: Rainfed Agriculture and Watershed Management		
Credits	: 2 (1+1)				
Day & Date	: Friday, 11.10.2024	Time	: 09:00 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 Enlist various agronomic measures of soil and water conservation. Explain mulching in short.

Q.2 Define Drought. Give its classification and explain permanent drought in brief.

Q.3 Discuss the rainfall characteristics in rainfed agriculture.

Q.4 Define Water harvesting. List out its techniques and explain in brief farm pond.

Q.5 What is Contingent crop planning? Suggest mid-season drought corrections.

Q.6 Write the objectives of watershed management.

Q.7 Differentiate between Dry farming and Rainfed farming.

Q.8 Write in short about problems related to soil in rainfed area.

Q.9 What are the mechanisms of crop adaptations and mitigation to drought?

Q.10 Write short notes on (Any Two):

a) Antitranspirants

b) Concept of watershed management

c) *In-situ* moisture conservation methods

SECTION 'B'

Q.11 Do as directed:

1) Where the International Crop Research Institute for Semi Arid Tropics (ICRISAT) is located?
2) Which grass is widely recommended as vegetative barrier in watershed?
3) Rainfall in dryland farming areas is not erratic, scanty and ill-distributed. (State True/False)
4) Elaborate the name of CAZRI.

Q.12 Fill in the blanks:

1) In India, bulk of rainfall is received from _____ monsoon.
2) When rainfall amount realized in a day is 2.5 mm or more, it is called as _____.
3) _____ tillage include reduced tillage, minimum tillage, no-till, direct drill and mulch tillage.
4) The two examples of contingent crops are _____ and _____.

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