MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

	D.OC.(110103) 1-g-12
Sem	ester : II (New) Term : Second Academic Year : 2023-24
-	rse No. : AGRO 123 Title : Fundamentals of Agronomy-II
Crec	Time : 10:00 to 12:00 frs. Total France
Day	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'
2.1	Define Irrigation and state the role of water in plants.
Q.2	Enlist the methods of irrigation and explain in brief about drip irrigation.
Q.3	Describe the process of water absorption and give the factors responsible for it.
•Q.4	Define Irrigation scheduling. Enlist different approaches of irrigation scheduling and explain the critical growth stage approach.
Q.5	Classify soil water and describe capillary water.
•Q.6	Define Evapotranspiration of water and state the factors influencing evapotranspiration.
•Q.7	Enlist the soil moisture constants. Explain Field capacity and Moisture equivalent.
Q.8	Write short notes on (Any Two):
	a) Permanent Wilting Point b) Water Use Efficiency c) SPAC relationship
Q.9	a) Explain moisture extraction pattern of crop with diagram.
	b) Define Drainage. Describe the causes of waterlogging.
Q.10	Define Water requirement. Enlist the methods of estimation of water requirements and explain transpiration ratio method.
	SECTION 'B'
Q.11	Define the following terms:
	1) Potential evapotranspiration 2) Irrigation requirement
	3) Net irrigation requirement 4) Effective rainfall
Q.12	Fill in the blanks:
	1) is synonymous to the evapotranspiration.
	2) irrigation is effectively used on slopy land.
	3) One cubic meter of water is equal toliter.
	4) Moisture held at 1/3 rd bar, is called as

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