MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE

	B.Sc.(Ho	ns.) Ho	orticulture		
Semest Course Credits	: No. : H/ENGG 121 : 2 (1+1)	Term Title Time	Water Management in Horticultural Crops		
Day &	Date: Thursday, 22.09.2022 Note: 1. Solve ANY EIGHT questions from SECTION All questions carry equal materials. The praw neat diagram wherever the second s	ons from S ON 'B' ar arks.	n SECTION 'A'. are compulsory.		
	SI	ECTION	N 'A'		
Q.1	What are the factors influencing the water relation of plant and its growth?				
Q.2	What is Hydrologic Cycle? Explain in brief the process of hydrologic cycle.				
Q.3	Define Evapotranspiration. Discuss about potential evapotranspiration.				
Q.4	What is Sprinkler Irrigation? Enlist the different basic components of sprinkler irrigation system and give its advantages.				
Q.5	What is Drip Irrigation? Give the advantages of drip irrigation system and enlist the different components of drip irrigation system.				
Q.6	Enlist the different methods of irrigation. Discuss about border irrigation method.				
Q.7	A lateral has 12 sprinklers spaced 14 m apart. The laterals are spaced 20 m on the main line. Determine the amount of fertilizer to be applied at each setting when the recommended fertilizer dose is 80 kg/ha.				
Q.8	A Persian wheel discharges at the rate of 11,000 L per hour and works for 8 hours each day. Estimate the area commanded by the water lift, if the average depth of irrigation is 8 cm and irrigation interval is 15 days.				
Q.9	Discuss in brief about global water	scenario.	o.		
Q.10	Write short notes on:				
	a) Irrigation Period		b) Check Basin Irrigation		
SECTION 'B'					
Q.11	Define the following terms:				
	1) Irrigation Frequency		2) Net Irrigation Requirement		
	3) Field Capacity		4) Transpiration		
Q.12	Fill in the blanks:				
	1) is called the heart of micro-irrigation system. 2) The most advanced and efficient practice of fertilization is 3) Artificial application of water to the land is called 4) sprinkler heads are efficiently adopted to irrigate lawns and gardens.				
	4)sprinkler heads are	emicienti	my adopted to irrigate tawns and gardens.		

Q.12	Fill in the blanks:				
	1) is the first Plant Protection Advisor to the Gov	ernment of India.			
	2) Epicranial suture is also called as				
	3) Wing bearing thoracic segments of insects, is collectively called				
	4) In housefly, the second pair of wings is modified into				
	5) Hypognathous type of head is mainly observed in				
1=1	6) Chewing and lapping mouth parts are observed in	insect.			
1.	7) Apodous larvae are called				
	8) Unicellular processes on insect body are called				