## MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END THEORY EXAMINATION

## B.Sc.(Hons.) Horticulture

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Semeste	er	:	II (New)	Term	:	Second	Academ	ic Year : 2022-23
Course Credits		:	11/SSAC 122 2 (1+1)	Title	:	Soil Fertill	ty and N	itrient Management
Dny &		-	Tuesday, 08.08.2023	Time	:	9:00 to 11:	00 hrs.	Total Marks : 40
7	Note:		Solve ANY EIGHT que				·•	
		3.	All questions from SECT All questions carry equal		re (	compulsory.		
		4			ary	<u>'.                                    </u>		
				SECTION	٠,٨	٧.		
Q.1	Give the factors affecting soil fertility.							
Q.2	Enlist the different types of mechanisms of transport of ions from soil to roots and describe any one mechanism in brief.							
Q.3	How are acid soils formed?							
Q.4	Give composition of organic matter.							
Q.5	Define C: N ratio and give its importance.							
Q.6	Define soil fertility evaluation and enlist its methods.							
Q.7	Define integrated nutrient management. Enlist its components and state its importance.							
Q.8	Classify the nitrogenous fertilizers on the basis of chemical form of nitrogen along with one example of each.							
Q.9	Define biofertilizer and classify it.							
Q.10	Classify organic manures.							
				SECTION	1 1	B'		
Q.11	Fill i	n t	he blanks:					
	1)	pec	is the capacity of ified system of manageme	soil in its	nat orc	tural enviro ssed in term	nment, to ns of crop	produce crops under a yield.
	a	nd	is a complex a rphous and colloidal orga synthesis and has chemic plants.	nic substa	nco	e that result	s from m	brown or dark brown icrobial decomposition at significance to soils
	is an example of citric acid soluble phosphatic fertilizer.							
4) Protein-folding-unfolding hypothesis of nutrient uptake was proposed b								posed by
Q.12	Defi	ne	the following terms:					
	1) L	uxi	ary consumption	2) Salin	e s	oil		
	3) C	riti	cal limit of nutrients	4) Com	ple	x fertilizers	l	
			•	<b>**</b>	<b>.</b>	<b>* * *</b>		

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