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Enrollment No.....

Faculty of Agriculture

End Sem (Odd) Examination Dec-2019 AG3CO01 Fundamentals of Horticulture

Programme: B.Sc. (Ag.) Branch/Specialisation: Agriculture

Duration: 3 Hrs. Maximum Marks: 50

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

Q.1 (N	(ICQs)	should be written in full instead	of only a, b, c or d.	
Q.1	i.	Who is the father of Horticulture?		1
		(a) Verges Kurien (b	b) M.H. Marigowda	
		(c) N.E.Borlaug (d	d) M.S.Swaminathan	
	ii.	Derive IIHR?		1
		(a) Indian Intelligence Head Re	esearch	
		(b) Indian Institute of Hydro Re	esearch	
		(c) Indian Institute of Horticultu	ure Report	
		(d) Indian Institute of Horticult	ure Research	
	iii.	Auxin plays a critical role in for	rmation of on cutting?	1
		(a) Adventurous roots (b)	b) Tap roots	
	(c) Simple leaves (d) Compound leaves		d) Compound leaves	
	iv.	Which of the following is a temperate fruit?		1
		(a) Mango (b) Banana (d	c) Apple (d) None of these	
v.		Most commonly used material in Potato propagation		1
		(a) Tuber (b) Bulb (c	c) Rhizome (d) Corm	
	vi.	High density planting was first	established in which fruit tree?	1
		(a) Mango (b) Guava (c	c) Apple (d) Banana	
vii.		Which of the following is an of	ten-cross pollinated crop?	1
		(a) Okra (b) Carrot (c	c) Tomato (d) Capsicum	
viii.		Pollination through Insects is known as?		1
		(a) Anemophily(b) Entomophily(c) Gravity(d) None of these		
		If we mix Fertilizers + water & applied to Crop is known as?		1
		(a) Medication (b)	b) Fertigation	
		(c) Irrigation (d	d) None of these	
			I	P.T.O.

	х.	In line drip emitter is a division of system?	1
		(a) Sprinkler system (b) Sip system	
		(c) Drip System (d) All of these	
Q.2 i.		What are Climacteric fruits?	1
	ii.	Define horticulture and its branches?	2
iii.		Write the scope and importance of horticulture crops production in India?	5
OR	iv.	Write about the classification of horticulture crops based on: (a) Climate (b) Life span (c) photoperiodic requirement.	
Q.3 i	i.	What are macropores?	1
	ii.	Write about climatic conditions in India?	2
	iii.	Write about the Grafting and Budding methods in Asexual propagation.	5
OR	iv.	What do you know about seed Dormancy? Write down its break down methods?	
Q.4	i.	Define juvenility?	1
	ii.	Write about unfruit fullness?	2
	iii.	Write about the principles for an orchard establishment?	5
OR	iv.	Write about different planting systems of fruit crops?	
Q.5	i.	Define pollinizers.	1
	ii.	Write about different types of pollinations with an example?	3
	iii.	Write the uses of following:	4
		Auxins, Cytokinins, Giberelins, Absicic acid	_
OR	iv.	What are medicinal and aromatic plants write their uses?	4
Q.6	i.	Define sprinklers.	1
	ii.	Write about the advantages of Micro- irrigation systems.	3
	iii.	Write the difference between Organic and Inorganic fertilizers?	4
OR	iv.	Write about different types of irrigation methods followed in horticulture crops?	4

Marking Scheme

AG3CO01 Fundamentals of Horticulture

Q.1	i.	Who is the father of Horticulture?		1
		(b) M.H. Marigowda		1
ii.		Derive IIHR? (d) Indian Institute of Horticulture Research		1
	iii.	Auxin plays a critical role in formation of	on outting?	1
	111.	(a) Adventurous roots	on cutting:	1
	iv.	Which of the following is a temperate fruit?		1
		(c) Apple		
	v.	Most commonly used material in Potato propagation		
		(a) Tuber		
	vi.	High density planting was first established in which fruit tree?		
		(c) Apple		
	vii.	Which of the following is an often-cross pollinated crop?		
		(a) Okra		
	viii.	Pollination through Insects is known as?		1
		(b) Entomophily		
	ix.	If we mix Fertilizers + water & applied to Crop is known as?		1
		(b) Fertigation		
	х.	In line drip emitter is a division of	_ system?	1
		(c) Drip System		
Q.2	i.	Climacteric fruits (As per answer)	1 mark	1
	ii.	Define horticulture	1 mark	2
		Its branches	1 mark	
	iii.	Importance of horticulture	3 marks	5
		Scope of horticulture	2 marks	
OR	iv.	Write about the classification of horticulture crops based on:		5
		Climate and photoperiodic requirement.	4 marks	
		Life span	1 mark	
Q.3	i.	Define macropores (As per answer)	1 mark	1
Q.5	ii.	Climatic conditions in India	2 marks	2
	iii.	Grafting	2.5 marks	5
	111.	Budding	2.5 marks	J
OR	iv.	Seed Dormancy	2 marks	5
	14.	Seed breaking methods	3 marks	J
		2000 ordaning meanods	o mano	
Q.4	i.	Define Juvenility (As per answer)	1 mark	1

OR	ii. iii. iv.	Unfruit fullness Different Points(Total five points) Planting method (Total Five methods)	2 marks (1 mark*5) (1 mark*5)	2 5 5
Q.5	i.	Define pollinizers. (As per answer)	1 mark	1
	ii.	Different types of pollinations with an example	(1 mark*3)	3
	iii.	Write the uses of following:		4
		Auxins	1 mark	
		Cytokinins	1 mark	
		Giberelins	1 mark	
		Absicic acid	1 mark	
OR	iv.	Medicinal	2 marks	4
		Aromatic plants write their uses	2 marks	
Q.6	i.	Define sprinklers.	1 mark	1
	ii.	Advantages of Micro- irrigation systems.	(1 mark*3)	3
	iii.	Organic and Inorganic fertilizers(At least 4 point)	(1 mark*4)	4
OR iv.		Different types of irrigation methods (At least 4 methods)		4
			(1 mark*4)	-
