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Enrollment No.....



Faculty of Agriculture
End Sem Examination Dec 2024
AG3CO21

Production Technology for Vegetables & Spices
Programme: B.Sc. (Hons.) 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. Assume suitable data if necessary. Notations and symbols have their usual meaning.

	Marks	BL	PO	CO	PSO
Q.1 i. According to ICMR Per day per capita use of vegetables?	1	1	1	1	1
(a) 240g (b) 260g (c) 280g (d) 300g					
ii. Which type of gardening is used to produce vegetables for local market?	1	1	1	1	1
(a) Market garden (b) Truck garden (c) Vegetable forcing garden (d) Kitchen garden					
iii. The red colour in fruit at the ripening stage of chilli is due to _____ pigment.	1	2	4	2	2
(a) Capsanthin (b) Capsaicin (c) Catechol (d) Quercetin					
iv. Whiptail disease in cauliflower is caused by deficiency of _____.	1	2	3	2	3
(a) Calcium (b) Boron (c) Molybdenum (d) Potash					
v. What is the place of origin of Aubergine?	1	1	2	3	2
(a) China (b) India (c) Mexico (d) Brazil					

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vi.	Bitter taste of egg plant is due to _____.	1	3	3	3	2
	(a) Anti-vitamin E factor (b) CN Glycoside (c) Trypsin inhibitors (d) Solasodine					
vii.	Spacing of cauliflower-	1	2	2	4	2
	(a) 45×30 cm (b) 60×45 cm (c) 60×60 cm (d) All of these					
viii.	Beetroot has basic chromosome no-	1	2	2	4	2
	(a) $2n = 24$ (b) $2n = 17$ (c) $2n = 18$ (d) None of these					
ix.	_____ is a variety of Knol-khol?	1	2	1	5	1
	(a) King of North (b) Queen Pride (c) King one (d) None of these					
x.	Spinach contains _____.	1	2	1	5	2
	(a) Lactic acid (b) Oxalic acid (c) Formic acid (d) Carbonic acid					
Q.2	i. Write the definition of olericulture. ii. Classify the different types of nursery beds. iii. Describe the different types of vegetables gardening.	1	1	1	1	1
		2	2	2	1	2
		5	2	4	1	2
OR	iv. Summarize the production technology of tomato.	5	3	2	1	3
Q.3	i. Explain the classification of vegetable based on nutrition value. ii. Describe the importance and scope of vegetable crops. iii. Specify the different types of vegetable garden and describe any two.	1	2	1	2	11
		3	2	2	2	1
		4	2	2	2	3
OR	iv. Explain the production technology of pea.	4	2	3	2	2
Q.4	i. Enlist the important varieties of cauliflower and cabbage. ii. Explain the production technology of carrot.	2	2	2	3	3
		6	2	3	3	2

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OR	iii. Describe the cultivation practises of Knol-khol on following heads: -	6	4	4	3	11
	(a) Climate (b) Soil (c) Improved varieties (d) Planting distance (e) Harvesting and yield (f) Physiological disorders					
Q.5	i. Enlist the important varieties of beetroot and radish.	2	2	2	4	1
	ii. Describe the production technology of beetroot.	2	2	3	4	3
	iii. Summarize the cultivation practises of radish.	4	3	3	4	3
OR	iv. Classify the botanical classification of onion and garlic.	4	3	2	4	11
Q.6	Attempt any two:					
	i. Enlist the tuber crops and describe the production technology of any one of them.	4	2	2	5	2
	ii. Briefly describe the cultivation practises of amaranth.	4	1	3	5	3
	iii. Describe the cultivation practises of potato on following heads: -	4	3	4	5	11
	(a) Climate (b) Soil (c) Improved varieties (d) Planting distance (e) Harvesting and yield (f) Physiological disorders					

[1]				[2]			
Marking Scheme							
AG3CO21 - Production Technology for Vegetables and Spices							
Q.1	i) d. 300 g	1		Q.4	i. Enlist the important varieties of Cauliflower.	1	2
	ii) a. Market Garden	1			Enlist the important varieties of Cabbage.	1	
	iii) a. Capsanthin	1			ii. Explain the Production technology of carrot?	6	
	iv) c. Molybdenum	1					
	v) b. India	1		OR	iii. Describe the cultivation practises of Knol-khol on following heads: -	6	
	vi) d. Solasodine	1			i. Climate	1	
	vii) b. 60x45 cm	1			ii. Soil	1	
	viii) c. $2n = 18$	1			iii. Improved varieties	1	
	ix) a. King of North	1			iv. Planting distance	1	
	x) b. Oxalic acid	1			v. Harvesting and Yield	1	
					vi. Physiological disorders	1	
Q.2	i. Write the definition of olericulture?	1		Q.5	i. Enlist the important varieties of Beetroot.	1	2
	ii. Classify the different types of Nursery beds?	2			Enlist the important varieties of Radish.	1	
	iii. Describe the different types of Vegetables Gardening?	5			ii. Describe the Production technology of Beetroot.	2	
OR	iv. Summarize the Production technology of Tomato?	5			iii. Summarize the cultivation practises of radish.	4	
				OR	iv. Classify the botanical classification of onion.	2	4
					Classify the botanical classification of garlic.	2	
Q.3	i. Explain the classification of vegetable based on Nutrition Value?	1		Q.6	Attempt any two:		
	ii. Describe the Importance of Vegetable crops?	1.5	3		i. Enlist the tuber crops.	1	4
	Describe the Scope of Vegetable crops?	1.5			Describe the Production technology of any one of them.	3	
	iii. Specify the different types of vegetable garden.	2	4		ii. Briefly describe the cultivation practises of Amaranth.	4	
	Describe any two-vegetable garden.	2			iii. Describe the cultivation practises of Potato on following heads: -	4	
OR	iv. Explain the Production technology of Pea?	4			i. Climate	1	
					ii. Soil	1	
					iii. Improved varieties	1	
					iv. Planting distance	1	