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

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OR	iii.	Describe the cultivation practises of Knol-khol on following heads: - (a) Climate (b) Soil (c) Improved varieties (d) Planting distance (e) Harvesting and yield (f) Physiological disorders	6	4	4	3	11
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: - (a) Climate (b) Soil (c) Improved varieties (d) Planting distance (e) Harvesting and yield (f) Physiological disorders	4	3	4	5	11

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Marking Scheme
AG3CO21 - Production Technology for Vegetables and Spices

Q.1	i)	d. 300 g	1
	ii)	a. Market Garden	1
	iii)	a. Capsanthin	1
	iv)	c. Molybdenum	1
	v)	b. India	1
	vi)	d. Solasodine	1
	vii)	b. 60×45 cm	1
	viii)	c. 2n = 18	1
	ix)	a. King of North	1
	x)	b. Oxalic acid	1
Q.2	i.	Write the definition of olericulture?	1
	ii.	Classify the different types of Nursery beds?	2
	iii.	Describe the different types of Vegetables Gardening?	5
OR	iv.	Summarize the Production technology of Tomato?	5
Q.3	i.	Explain the classification of vegetable based on Nutrition Value?	1
	ii.	Describe the Importance of Vegetable crops?	1.5
		Describe the Scope of Vegetable crops?	1.5
	iii.	Specify the different types of vegetable garden.	2
		Describe any two-vegetable garden.	2
OR	iv.	Explain the Production technology of Pea?	4

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Q.4	i.	Enlist the important varieties of Cauliflower.	1	2
		Enlist the important varieties of Cabbage.	1	
	ii.	Explain the Production technology of carrot?		6
OR	iii.	Describe the cultivation practises of Knol-khol on following heads: -		6
		i. Climate	1	
		ii. Soil	1	
		iii. Improved varieties	1	
		iv. Planting distance	1	
		v. Harvesting and Yield	1	
		vi. Physiological disorders	1	
Q.5	i.	Enlist the important varieties of Beetroot.	1	2
		Enlist the important varieties of Radish.	1	
	ii.	Describe the Production technology of Beetroot.		2
	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.6		Attempt any two:		
	i.	Enlist the tuber crops.	1	4
		Describe the Production technology of any one of them.	3	
	ii.	Briefly describe the cultivation practises of Amaranth.		4
	iii.	Describe the cultivation practises of Potato on following heads: -		4
		i. Climate	1	
		ii. Soil	1	
		iii. Improved varieties	1	
		iv. Planting distance	1	