Total No. of Questions: 6

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Faculty of Agriculture

End Sem (Odd) Examination Dec-2019 AG3CO21 Production Technology for Vegetables and Spices

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 instea	d of only a, b, o	e or d.	
Q.1	i.	What is the requirement of tomato seed rate in open pollinated varieties?		1	
		(a) 1-2 kg/ha	(b) 100-120g/l	ha	
		(c) 400-500g/ha	(d) 600-700g/l	ha	
	ii.	Puffiness is the disorder of which crop?			1
		(a) Brinjal (b) Chilli	(c) Tomato	(d) Potato	
	iii.	Origin of pea is			1
		(a) India	(b) Africa		
		(c) Central America	(d) Egypt		
	iv.	Metaxinia is present in which crop?		1	
		(a) Cucumber	(b) Pea		
		(c) Dolichus bean	(d) Cluster bea	an	
v.		Pusa Mukta is a variety of which crop?			1
		(a) Cauliflower	(b) Cabbage		
		(c) Brussels sprout	(d) Broccoli		
vi.		Pusa Ketki is a variety of which crop?		1	
		(a) Cauliflower	(b) Cabbage		
		(c) Brussels sprout	(d) Broccoli		
	vii.	G-282 is a variety of which crop?			1
		(a) Onion (b) Potato	(c) Chilli	(d) Garlic	
	viii.	Pusa Madhavi is a variety of which crop?		1	
		(a) Onion (b) Garlic	(c) Radish	(d) Carrot	
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	ix.	. CTCRI is situated in which state of India?		1	
		(a) Kassargod	(b) Banguluru		
		(c) Thiruvananthapuram	(d) Delhi		
	х.	Black heart of potato is due	to	1	
		(a) Oxygen deficiency	(b) Poor ventilation		
		(c) Both (a) and (b)	(d) None of these		
Q.2	i.	Which enzyme is responsible	e for red colour of chilli?	1	
	ii.	What are the characteristics	of vegetable?	2	
iii. Write down the importance and scope of vegetable and spice Indian economy.					
OR iv.		Write down the botanical nanumber of following crops.	ames, family, origin and chromosome	5	
		(a) Tomato (b) Brinjal	(c) Chilli (d) Cucumber		
Q.3	i.	What is the flower colour of bottle gourd?		1	
Q. .5	ii.	Write down the cultivation of pumpkin on following points.			
		(a) Soil and climate	(b) Seed rate and sowing time		
		(c) Weed management			
	iii.	Write down the cultivation of (a) Soil and climate	of sponge gourd on following points.	4	
		(b) Planting distance and Ma	anure and fertilizers		
		(c) Varieties and Harvesting			
OR	iv.	Write down the cultivation of	of French bean on following points.	4	
		(a) Soil and climate	(b) Irrigation and weed management		
		(b) Manure and fertilizers	(c) Varieties		
Q.4	i.	What are the characteristics of crussiferae family?			
	ii.	Write down the cultivation of	of cauliflower on following points.	6	
		(a) Soil and climate	(b) Irrigation and weed management		
		(b) Manure and fertilizers	(c) Varieties		
		(d) Harvesting and Yield			
OR	iii.	Write down the physiologica them.	al disorder of cauliflower and describe	6	

Q.5	1.	Describe in brief:	2
		(a) Curing of onion (b) Mulching in beetroot	
	ii.	Describe in brief:	2
		(a) Physiological disorder of radish	
		(b) Storage of onion	
	iii.	Write down the cultivation of onion on following points.	4
		(a) Botanical name and family	
		(b) Soil and Climate	
		(c) Varieties	
		(d) Insect and Diseases	
OR	iv.	Write down the cultivation of carrot on following points.	4
		(a) Botanical name and family	
		(b) Soil and Climate	
		(c) Varieties	
		(d) Harvesting and Yield	
Q.6		Attempt any two:	
	i.	Write down the cultivation of potato on following points.	4
		(a) Botanical name and family	
		(b) Soil and Climate	
		(c) Varieties	
		(d) Harvesting and Yield	
	ii.	Write down the physiological disorder of potato and describe	4
		them.	
	iii.	Write down the cultivation of amaranthus on following points.	4
		(a) Soil and climate (b) Sowing time and Spacing	
		(c) Weeding and irrigation (d) Harvesting and Yield	
		(c)coming and mingation (d) that vesting and from	

Marking Scheme

AG3CO21 Production Technology for Vegetables and Spices

Q.1	i.	What is the requirement of tomato seed rate in varieties?	open pollinated	1
		(c) 400-500g/ha		
	ii.	Puffiness is the disorder of which crop?		1
		(c) Tomato		
	iii.	Origin of pea is		1
		(c) Central America		
	iv.	Metaxinia is present in which crop?		1
		(a) Cucumber		
	v.	Pusa Mukta is a variety of which crop?		1
		(b) Cabbage		
	vi.	Pusa Ketki is a variety of which crop?		1
		(a) Cauliflower		
	vii.	G-282 is a variety of which crop?		1
		(a) Onion		
	viii.	Pusa Madhavi is a variety of which crop?		1
		(d) Carrot		
	ix.	CTCRI is situated in which state of India?		1
		(c) Thiruvananthapuram		
	х.	Black heart of potato is due to		1
		(c) Both (a) and (b)		
Q.2	i.	Which enzyme is responsible for red colour of chilli		
		(As per answer)	1 mark	
	ii.	What are the characteristics of vegetable?		2
	iii.	Write down the importance and scope of vegetable Indian economy.	le and spices in	5
		5 Points for veg	2.5 marks	
		5 Points for Spice	2.5 marks	
OR	iv.	Write down the botanical names, family, origin as		5
	1,,	number of following crops.	id emomosome	·
		(a) Tomato	1.25 marks	
		(b) Brinjal	1.25 marks	
		(c) Chilli	1.25 marks	
		(d) Cucumber	1.25 marks	
Q.3	i.	Flower colour of bottle gourd	1 mark	1

	ii.	Write down the cultivation of pumpkin on following points.			
		(a) Soil and climate	1 mark		
		(b) Seed rate and sowing time	1 mark		
		(c) Weed management	1 mark		
	iii.	Write down the cultivation of sponge gourd on foll	owing points.	4	
		(As per explanation)	4 marks		
OR	iv.	Write down the cultivation of French bean on follo	wing points.	4	
		(a) Soil and climate	1 mark		
		(b) Irrigation and weed management	1 mark		
		(c) Manure and fertilizers	1 mark		
		(d) Varieties	1 mark		
Q.4	i.	Minimum 4 characteristics of crussiferae family	(0.5 mark*4)	2	
Ų.4	ii.	Write down the cultivation of cauliflower on follow	` ′	6	
	11.	(a) Soil and climate	1.2 marks	U	
		(b) Irrigation and weed management	1.2 marks		
			1.2 marks		
		(c) Manure and fertilizers(d) Varieties	1.2 marks		
ΩD	:::	(e) Harvesting and Yield (e) Harvesting and Yield (e) Harvesting and Yield (e) Harvesting and Yield (f) Harvesting and Har	1.2 marks		
OR	iii.	Physiological disorder of cauliflower and describe		6	
			(1.5 mark*4)		
Q.5	i.	Describe in brief:		2	
		(a) Curing of onion	1 mark		
		(b) Mulching in beetroot	1 mark		
	ii.	Describe in brief:		2	
		(a) Physiological disorder of radish	1 mark		
		(b) Storage of onion	1 mark		
	iii.	Write down the cultivation of onion on following p	oints.	4	
		(a) Botanical name and family	1 mark		
		(b) Soil and Climate	1 mark		
		(c) Varieties	1 mark		
		(d) Insect and Diseases	1 mark		
OR	iv.	Write down the cultivation of carrot on following p	oints.	4	
		(a) Botanical name and family	1 mark		
		(b) Soil and Climate	1 mark		
		(c) Varieties	1 mark		
		(d) Harvesting and Yield	1 mark		
Q.6		Attempt any two:			
	i.	Write down the cultivation of potato on following I	points.	4	

	(a) Botanical name and family	1 mark	
	(b) Soil and Climate	1 mark	
	(c) Varieties	1 mark	
	(d) Harvesting and Yield	1 mark	
ii.	Write down the physiological disorder	er of potato and describe	4
	them.	(1 mark*4)	
iii.	Write down the cultivation of amaranthu	as on following points.	4
	(a) Soil and climate	1 mark	
	(b) Sowing time and Spacing	1 mark	
	(c) Weeding and irrigation	1 mark	
	(d) Harvesting and Yield	1 mark	

