Total No. of Questions: 6

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Enrollment No.....



Faculty of Agriculture

End Sem Examination May-2024

AG3CO31 Farming system & sustainable Agriculture
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.

necess	ary. No	otations and symbols have thei	r usual meaning.	
Q.1	i.	Who introduced farming syst	tem?	1
		(a) African (b) Egyptian	(c) Austrian (d) European	
	ii.	Main aim of specialized farm	ning system is-	1
		(a) Maximum productivity	(b) Maximum input use	
		(c) Soil health maintenance	(d) All of these	
	iii.	The yearly sequence and spa	atial arrangement of crops or of crops	1
		and fallow on a given area is	called-	
		(a) Cropping pattern	(b) Cropping system	
		(c) Crop Rotation	(d) None of these	
	iv.	Which cropping system is ha	ving largest area in India?	1
		(a) Rice-Wheat	(b) Wheat-Rice	
		(c) Rice-Rice-Rice	(d) Rice-Oilseeds	
	v.	Which is not an element of so	ustainable agriculture?	1
		(a) Agro-forestry		
		(b) Crop rotation		
		(c) Permaculture		
		(d) Permanent use of pesticid	9	
	vi.	Which is not an objective of	_	1
		(a) Maintaining a healthy env	vironment	
		(b) Economic profitability		
		(c) Higher crop production		
		(d) Social and economic equi		
	vii.	Cropping system which invo or trees is called-	lves the raising of crops, animals and	1
		(a) Mixed farming	(b) Intercropping	
		(c) Multiple cropping	(d) All of these	
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	viii.	Activity area of farming system is-	1
		(a) Database analysis (b) On station research	
		(c) On-farm researches (d) All of these	
	ix.	Integrated farming system improves-	1
		(a) Farm income	
		(b) Family labour employment	
		(c) Nutritional security of family	
		(d) All of these	
	х.	Average cropping intensity in India is-	1
		(a) 100 % (b) 90% (c) 136% (d) 180%	
Q.2	i.	Define farming system.	1
	ii.	Write the concept of farming system.	2
	iii.	Explain components of farming system.	5
OR	iv.	Explain importance and scope of farming system.	5
0.2	:	What is anomain a mattern ?	1
Q.3	i. ii.	Write the difference between grapping system and grapping pettern	1 3
	11. 111.	Write the difference between cropping system and cropping pattern. Explain multiple cropping systems.	<i>3</i>
OR	iv.	Explain induspic cropping systems. Explain efficient cropping system and their evaluation.	4
OK	17.	Explain efficient cropping system and their evaluation.	_
Q.4	i.	What is LEISA?	2
	ii.	Explain conservation agriculture strategies in agriculture.	6
OR	iii.	Write the impact of sustainable agriculture on agriculture.	6
Q.5	i.	Define integrated farming system.	2
	ii.	Write brief historical background of integrated farming system.	2
	iii.	Discuss the IFS model for different agro-climatic zones of	4
		Madhya Pradesh.	
OR	iv.	Why there is a need of integrated farming system in Indian	4
		agriculture?	
Q.6		Attempt any two:	
Ų.º	i.	Explain resource use efficiency and optimization techniques in	4
		agriculture.	-
	ii.	Discuss resource cycling and flow of energy in different farming	4
		system.	
	iii.	Explain characteristics of good integrated farming system model.	4

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Marking Scheme

AG3CO31- Farming System & Sustainable Agriculture

Q.1	i)	(b) Egyptian	1
	ii)	Main aim of specialized farming system is.	1
		(a) Maximum productivity	
	iii)	The yearly sequence and spatial arrangement of crops or of crops	1
		and fallow on a given area is called.	
		(a) Cropping patterns	
	iv)	Which cropping system is having largest area in India?	1
		(a) Rice-Wheat	
	v)	Which is not an element of sustainable agriculture?	1
		(d) Permanent use of pesticides in farming.	
	vi)	Which is not an objective of sustainable agriculture?	1
		(c) Higher crop production	
	vii)	Cropping system which involves the raising of crops, animals and	1
		or trees is called.	
		(a) Mixed farming	
	viii)	Activity area of farming system is.	1
		(d) All of these	_
	ix)	Integrated farming system improves.	1
	`	(d) All of these	4
	x)	Cropping intensity in India is.	1
		(c) 136 %	
Q.2	i.	Define Farming System.	1
	ii.	Write the concept of farming system.	2
	iii.	Explain components of Farming System.	5
	1111.	Any five points	J
OR	iv.	Explain importance and scope of farming system.	5
OIC	11.	Importance	2.5
		scope	2.5
		seope	
Q.3	i.	What is cropping pattern.	1
	ii.	Write the difference between cropping system and cropping	3
		pattern.	

Any Three points.

	111.	Explain multiple cropping systems.	4
OR	iv.	Explain efficient cropping system and their evaluation.	4
Q.4	i.	What is LEISA.	2
	ii.	Explain Conservation agriculture strategies in agriculture. Any six points.	6
OR	iii.	Write the impact of Sustainable Agriculture on agriculture. Any six points.	6
Q.5	i.	Define Integrated farming system.	2
	ii.	Write brief historical background, of Integrated farming system.	2
	iii.	Discus the IFS model for different agro-climatic zones of Madhya Pradesh.	4
OR	iv.	Why need of integrated farming system in Indian agriculture. Any four points.	4
Q.6			
	i.	Explain Resource use efficiency and optimization techniques in agriculture. Any four points.	4
	ii.	Discus Resource cycling and flow of energy in different farming system.	4
	iii.	Any four points. Explain characteristics of good integrated farming system model. Any four points	4