Total No. of Questions: 6

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Enrollment No



Faculty of Agriculture End Sem Examination May-2024 AG3CO43

Rainfed Agriculture & Watershed Management

Programme: B.Sc. (Hons.) Branch/Specialisation: Agriculture Maximum Marks: 50

uration:	3 nrs.	Maximum Marks: 5	U
ote: All	questions are compulsory. Internal ch	oices, if any, are indicated. Answers of)
.1 (MCQ	s) should be written in full instead of o	only a, b, c or d. Assume suitable data	i
ecessary.	Notations and symbols have their usua	al meaning.	
Q.1 i.	Central Research Institute for dry lar	nd agriculture is located at-	1
	(a) Dehradun (b) Solapur	(c) Hyderabad (d) Bizapur	
ii.	Cultivation of crops in regions received	iving more than 1150 mm rainfall is	1
	known as		
	(a) Rainfed farming	(b) Dry land farming	
	(c) Dry land farming	(d) Mixed farming	
iii.	Central arid zone research institute is	s located at-	1
	(a) Ludhiana (b) Kanpur	(c) Jodhpur (d) Solapur	
iv.	Which type of tillage operation	in dry lands improves moisture	1
	conservation?		
	(a) Off season shallow tillage	(b) Deep tillage once in 2-3 years	
	(c) Shallow tillage in red soils	(d) All of these	
v.	Degradation of environment in dry la	ands is due to	1
	(a) Increasing biotic pressure		
	(b) Absence of management options		
	(c) Lack of water resources		
	(d) All of these		
vi.	Main component of watershed is	·	1
	(a) Soil and water conservation		
	(b) Water harvesting and crop manage	gement	
	(c) Alternate land use system		
	(d) All of these		
vii.	1 6	well adapted to transplanting under	1
	late onset of monsoon?		
	(a) Finger millet	(b) Pearl millet	
	(c) Foxtail millet	(d) None of these	

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	viii.	Legume crop gives good cover for land duri		1
		(a) Cowpea	(b) Mung bean	
		(c) Both (a) and (b)	(d) None of these	
	ix.	Watershed is also called as		1
		(a) Catchment area	(b) Drainage basin	
		(c) Both (a) and (b)	(d) None of these	
	х.	Most economical lining material for large po	ond is	1
		(a) Natural clay	(b) Bentonite	
		(c) Cement concrete	(d) Polyethylene sheet	
Q.2	i.	Define rainfed agriculture.		1
	ii.	Write the types of rainfed agriculture.		2 5
	iii.	Explain history of rainfed agriculture and w	atershed in India.	5
OR	iv.	Explain problems and prospects of rainfed agriculture in India.		5
Q.3	i.	What is drought?		1
	ii.	Write the types of drought.		3
	iii.	Explain effect of water deficit on physio-rof the plants.	morphological characteristics	4
OR	iv.	Explain soil and water conservation techniques.		4
Q.4	i.	Define water harvesting.		2
	ii.	Explain importance of water harvesting techniques.		6
OR	iii.	Explain efficient utilization of water through soil and crop management practices.		6
Q.5	i.	What is contingent crop planning?		2
	ii.	Write the objectives of contingent crop plan	ning.	2
	iii.	Explain contingent crop planning for aberra	nt weather conditions.	4
OR	iv.	Explain management of crops in rainfed an planning.	reas through contingent crop	4
Q.6		Attempt any two:		
	i.	Explain factors affecting watershed manage		4
	ii.	Explain the principles of watershed manage		4
	iii.	Explain components of watershed management	nent.	4

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Marking Scheme

Rainfed Agriculture & Watershed Management (T) - AG3CO43 (T)

Q.1	i)	Hyderabad	1
	ii)	Rainfed farming	1
	iii)	Jodhpur	1
	iv)	All of these	1
	v)	All of these	1
	vi)	All of these	1
	vii)	Finger millet	1
	viii)	Both a and b	1
	ix)	(b)	1
	x)	Natural clay	1
Q.2	i.	Define rainfed agriculture.	1
	ii.	Write the types of rainfed agriculture.	2
	iii.	Explain History of rainfed agriculture and watershed in India.	
		Any Five points (4+ 1 Marks)	5
OR	iv.	Explain Problems and prospects of rainfed agriculture in India.	
		Any Five points (2+3 Marks)	5
Q.3	i.	What is drought?	1
	ii.	Write the types of drought.	3
	iii.	Explain effect of water deficit on physio-morphological	
		characteristics of the plants.	4
		Any four points (1+3 Marks)	
OR	iv.	Explain Soil and water conservation techniques.	
		Any four points (1+3 Marks)	4
Q.4	i.	Define water harvesting.	2
	ii.	Explain importance of Water harvesting techniques.	
			6
		Any six points (2+4 Marks)	
OR	iii.	Explain efficient utilization of water through soil and crop	
		management practices. (2+4 Marks)	
		Any six points	

				U
Q.5	i.	What is contingent crop planning?		2
	ii.	Write the objectives of contingent crop planning.	(2+2 Marks)	2
	iii.	Explain contingent crop planning for aberrant we	ather conditions.	
		Any four points	(2+2 Marks)	4
OR iv.		Explain management of crops in rainfed areas the crop planning.	rough contingent	
		Any four points		4
Q .6				
	i. Explain factors affecting watershed management.			
		Any four points (1)	1 +3 Marks)	4
	ii.	Explain Principles of components of watershed management.		
		Any four points (2)	2 +2 Marks)	4
	iii.	Explain components of watershed management.		
		Any four points (2 +2 Marks)	4

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