

Enrollment No.....



Faculty of Agriculture
End Sem Examination Dec 2024
AG3CO22

Environmental Studies & Disaster Management
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. The objective of environment studies is _____. (a) Raise consciousness about environment conditions (b) To teach environmentally appropriate behavior (c) Create an environmental ethic sensitive society (d) All of these	1	1	1	1	1
	ii. _____ is the example of non-renewable natural resources. (a) Water (b) Solar Energy (c) Crops (d) Coal and Petroleum	1	1	1	1	1
	iii. Development activities on the hydrosphere cause _____. (a) Air pollution (b) Soil pollution (c) Water pollution (d) Soil erosion	1	2	4	2	2
	iv. The region of earth, where life exists is known as- (a) Hydrosphere (b) Biosphere (c) Lithosphere (d) Atmosphere	1	2	3	2	3
	v. Which of the following is NOT a structural component of an ecosystem? (a) Energy flow (b) Producers (c) Consumers (d) Decomposers	1	1	2	3	2

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vi.	Which organisms are known as producers in an ecosystem? (a) Animals (b) Bacteria (c) Plants (d) Fungi	1	3	3	3	2
vii.	Which of the following is NOT one of the biodiversity hotspots in India? (a) Western ghats (b) Himalayas (c) Indo-Burma region (d) Amazon rainforest	1	2	2	4	2
viii.	Poaching primarily refers to: (a) Legal hunting of animals (b) Illegal hunting and killing of wildlife (c) Deforestation (d) Planting trees in wildlife habitats	1	2	2	4	2
ix.	The network of interconnected food chain is known as- (a) Food chain (b) Food link (c) Food web (d) Food network	1	2	1	5	1
x.	Chipko Movement was strengthened under the leadership of _____. (a) Amrita Devi Bishnoi (b) Medha Patkar (c) A. K. Banerjee (d) Sunder Lal Bahuguna	1	2	1	5	2
Q.2	i. Define environment.	1	1	1	1	1
	ii. What are major environmental issues? Discusses in brief.	2	2	2	1	2
	iii. Describe the scope and importance of environmental studies.	5	2	4	1	2
OR	iv. Write a short note on sustainable development. How can we attain sustainable development?	5	3	2	1	3
Q.3	i. Define natural resource.	1	2	1	2	11
	ii. Classify the different types of environmental resources.	3	2	2	2	1
	iii. Explain the renewable and non-renewable resources with example.	4	2	2	2	3

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OR	iv.	Define deforestation. Discuss the causes of deforestation.	4	2	3	2	2
Q.4	i.	Write a short note on food chains & food webs.	2	2	2	3	3
	ii.	Describe the biodiversity in detail. What is the difference between in-situ and ex-situ conservation of biodiversity?	6	2	3	3	2
OR	iii.	Briefly explain producers, consumers and decomposers with examples.	6	4	4	3	11
Q.5	i.	Summarize the relationship between ecosystem and biodiversity.	2	2	2	4	1
	ii.	What do you mean by environmental pollution? Explain the effect of environmental pollution.	2	2	3	4	3
	iii.	Describe energy. Give a brief account of conventional and non-conventional energy sources.	4	3	3	4	3
OR	iv.	Describe the effects and control measures of urban and industrial wastes management.	4	3	2	4	11
Q.6		Attempt any two:					
	i.	Briefly describe the concept of disaster management and explain the community-based disaster management.	4	2	2	5	2
	ii.	What do you understand by the international strategy for disaster reduction?	4	1	3	5	3
	iii.	Summarize the natural and man-made disasters and their types.	4	3	4	5	11

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Marking Scheme

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Q.1	i)	d. All of the above	1
	ii)	d. Coal and Petroleum	1
	iii)	c. Water pollution	1
	iv)	b. Biosphere	1
	v)	a. Energy flow	1
	vi)	c. Plants	1
	vii)	d. Amazon Rainforest	1
	viii)	b. Illegal hunting	1
	ix)	c. Food web	1
	x)	d. Sunder Lal Bahuguna	1
Q.2	i.	Define environment?	1
	ii.	What are major environmental issues. Discuss in brief.	2
	iii.	Describe the scope of environmental studies?	- 2.5 5
		Describe the importance of environmental studies?	- 2.5
	OR iv.	Write a short note on sustainable development?	- 2.5 5
		How can we attain sustainable development?	- 2.5
Q.3	i.	Define natural resource?	1
	ii.	Classify the different types of environmental resources?	3
	iii.	Explain the renewable resources with example.	- 2 4
		Explain the non-renewable resources with example.	- 2
	OR iv.	Define deforestation.	- 2 4
		Discuss the causes of deforestation.	- 2

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Q.4	i.	Write a short note on food chains.	- 2	2	
		Write a short note on food webs.	- 2		
	ii.	Describe the biodiversity in details.	- 2	6	
		What is the difference between in-situ and ex-situ conservation of biodiversity.	- 4		
OR	iii.	Briefly explain Producers with examples.	- 2	6	
		Briefly explain Consumers with examples.	- 2		
		Briefly explain Decomposers with examples.	- 2		
Q.5	i.	Summarize the relationship between ecosystem and biodiversity?		2	
	ii.	What do you mean by environmental pollution?	- 1	2	
		Explain the effect of environmental pollution.	- 1		
	iii.	Describe energy?	- 1	4	
		Give a brief account of conventional energy sources.	- 1.5		
		Give a brief account of conventional and non-conventional energy sources.	- 1.5		
OR	iv.	Describe the effects of urban and industrial wastes management.	- 2	4	
		Describe the control measures of urban and industrial wastes management.	- 2		
Q.6	Attempt any two:				
	i.	Briefly describe the concept of disaster management.	- 2	4	
		Explain the community-based disaster management.	- 2		
	ii.	What do you understand by the international strategy for disaster reduction?		4	
	iii.	Summarize the natural disasters and their types.	- 2	4	
		Summarize the man-made disasters and their types.	- 2		