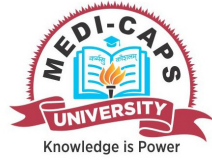


Enrollment No.....



Faculty of Agriculture
End Sem (Odd) Examination Dec-2018
AG3AE01 Environmental Studies
 Programme: B.Sc.(Ag.) Branch/Specialisation: Agriculture

Duration: 3 Hrs.**Maximum Marks: 60**

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 i. The definition of sustainable development was given by: **1**
 (a) Brundtland (b) R.A. Smith
 (c) A.G. Tansley (d) Maathai
- ii. Organic farming is a technique of raising crops through uses of: **1**
 (a) Manures (b) Biofertilizers
 (c) Resistant varieties (d) All of these
- iii. Main indicator of soil erosion is: **1**
 (a) Deforestation (b) Afforestation
 (c) Ozone layer (d) Goats and grazing animals
- iv. Deforestation generally decreases: **1**
 (a) Rainfall (b) Soil erosion (c) Drought (d) Global warming
- v. The study of interactions between living and non-living organisms and environment is called: **1**
 (a) Ecosystem (b) Ecology
 (c) Phyto-geography (d) Phytosociology
- vi. The region of earth where life exists is known as: **1**
 (a) Atmosphere (b) Hydrosphere
 (c) Biosphere (d) Lithosphere
- vii. Contaminated substances leak into ground and are carried by filtration into ground water supplies known as: **1**
 (a) Air pollution (b) Water pollution
 (c) Noise pollution (d) Land contamination
- viii. Ozone found in: **1**
 (a) Ionosphere (b) Stratosphere (c) Troposphere (d) Thermosphere

- ix. Tsunami can occur only during? **1**
 (a) Morning (b) Noon
 (c) Evening (d) Any time of day or nights
- x. National Institute of Disaster management is located at? **1**
 (a) Pune (b) Midnapur (c) New Delhi (d) Calcutta

- Q.2 i. How do organic farms manage fertility? **2**
 ii. How do the 3 R's help the environment? **3**
 iii. Explain the principle of sustainability by emphasizing threats to it. **5**
 OR iv. Discuss the scope and importance of environmental studies. **5**

- Q.3 i. What are the causes of desertification? **2**
 ii. Discuss the role of an individual in conservation of natural resources. **8**
 OR iii. Comment on the statement: "Dams are highly beneficial to overcome energy crisis." **8**

- Q.4 i. Ecosystems are not static, they are dynamic in time and space. Justify the statement. **3**
 ii. What are the hotspots of biodiversity? Write the importance of conservation of biodiversity. **7**
 OR iii. Write an explanatory note on 'endemic species of India'. **7**

- Q.5 i. Give a brief account of air pollution control technologies. **4**
 ii. What are the various methods that are being adopted for collection of solid waste? How nuclear solid waste is managed? **6**
 OR iii. Write a detailed account on soil pollution. **6**

- Q.6 Write short note on any two: **5**
 i. Types of natural and man-made disasters **5**
 ii. Concept of disaster management **5**
 iii. Role of armed forces in disaster response **5**

Marking Scheme
AG3AE01 Environmental Studies

Q.1	i.	The definition of sustainable development was given by:		1			
		(a) Brundtland					
	ii.	Organic farming is a technique of raising crops through uses of:		1			
		(d) All of these					
	iii.	Main indicator of soil erosion is:		1			
		(a) Deforestation					
	iv.	Deforestation generally decreases:		1			
		(a) Rainfall					
	v.	The study of interactions between living and non-living organisms and environment is called:		1			
		(b) Ecology					
	vi.	The region of earth where life exists is known as:		1			
		(c) Biosphere					
	vii.	Contaminated substances leak into ground and are carried by filtration into ground water supplies known as:		1			
		(b) Water pollution					
	viii.	Ozone found in:		1			
		(b) Stratosphere					
	ix.	Tsunami can occur only during?		1			
		(d) Any time of day or nights					
	x.	National Institute of Disaster management is located at?		1			
		(c) New Delhi					
Q.2	i.	How do organic farms manage fertility		2			
		Definition					
	ii.	3 R's help the environment 1 mark for each	(1 mark * 3)	3			
	iii.	Principle of sustainability	2 marks	5			
		Emphasizing threats to it.	3 marks				
OR	iv.	Scope of environmental studies	2 marks	5			
		Importance of environmental studies	3 marks				
Q.3	i.	Four Causes of desertification 0.5 mark each	(0.5 mark * 4)	2			
	ii.	Role of an individual in conservation of natural resources.		8			
OR	iii.	“Dams are highly beneficial to overcome energy crisis.”		8			
Q.4	i.	Ecosystems are not static, they are dynamic in time and space.		3			
	ii.	Hotspots of biodiversity	3 marks	7			
		Importance of conservation of biodiversity	4 marks				
OR	iii.	‘Endemic species of India’.		7			
Q.5	i.	Air pollution control technologies.		4			
		Any four 1 mark for each	(1 mark * 4)				
	ii.	Methods for collection of solid waste	3 marks	6			
		Nuclear solid waste is managed	3 marks				
OR	iii.	Soil pollution Causes	2 marks	6			
		Effects	2 marks				
		Control	2 marks				
Q.6		Write short note on any two:					
	i.	Types of natural	2.5 marks	5			
		Types of man-made disasters	2.5 marks				
	ii.	Concept of disaster management		5			
	iii.	Role of armed forces in disaster response		5			
