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Enrollment No.....



Faculty of Science
End Sem Examination May-2024

BT3AE03 Environmental Science

Programme: B.Sc.

Branch/Specialisation: Biotechnology

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. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. What is the primary goal of environmental management? **1**
(a) Maximizing profit
(b) Minimizing resource use
(c) Protecting and preserving the environment
(d) Promoting urbanization
- ii. What is the purpose of an Environmental Impact Assessment (EIA)? **1**
(a) To reduce environmental regulations
(b) To assess the potential environmental effects of a project
(c) To promote unsustainable development
(d) To bypass environmental laws
- iii. What is the term for the process by which fertile land becomes desert due to factors like deforestation and soil degradation? **1**
(a) Desertification (b) Afforestation
(c) Reforestation (d) Erosion
- iv. Which of the following is an example of a renewable resource? **1**
(a) Natural gas (b) Coal
(c) Wind energy (d) Plastic
- v. Which of the following particles is called the particulate pollutants? **1**
(a) Ozone (b) Radon (c) Fly Ash (d) Ethylene
- vi. Noise Pollution is created if the sound is excess to- **1**
(a) 30-35 dB (b) 40-45 dB (c) 80-99 dB (d) None of these
- vii. Which one of the following result takes place due to global warming? **1**
(a) Maintaining steady temperature
(b) Changes in the rainfall
(c) Pleasant environment
(d) Causing less pollution

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- viii. Which of the following is not a major greenhouse gas? **1**
(a) Ozone (b) Water vapor
(c) Methane (d) Carbon dioxide
- ix. Which one of the following is not a natural disaster? **1**
(a) Volcano eruption (b) Flood
(c) Blow-out (d) Tsunami
- x. Volcanoes are generally found when- **1**
(a) Intraplate pull apart or are coming together
(b) Tectonic plates pull apart or are coming together
(c) Earth's crust pulls apart or are coming together
(d) None of these pull apart or are coming together
- Q.2 i. State the factors that make an environment. **2**
ii. State any three objectives of environment protection law. **3**
iii. Describe environmental management system. **5**
OR iv. Explain briefly about sustainable development. **5**
- Q.3 i. Define desertification. **2**
ii. Write a short note on any two types of natural resources. **8**
OR iii. Explain in detail about energy resource. **8**
- Q.4 i. Define environmental pollutant with relevant examples. **3**
ii. (a) Explain briefly about causes of any two types of pollutions. **7**
(b) What is pollution? Give its types.
OR iii. Elaborate dangerous effects of any three types of pollution. **7**
- Q.5 i. Explain the concept of greenhouse effect. **4**
ii. Write briefly about global warming, its causes and effects. **6**
OR iii. Explain the atmospheric structures with a well-labelled diagram. **6**
- Q.6 Attempt any two:
i. Explain in detail about disaster management. **5**
ii. Discuss on any case study of a natural disaster. **5**
iii. What is carbon foot printing? Add a not on ways to reduce it. **5**

P.T.O.

Marking Scheme

Environmental Science (T) - BT3AE03 (T)

Q.1	i)	D	1
	ii)	B	1
	iii)	A	1
	iv)	C	1
	v)	C	1
	vi)	C	1
	vii)	B	1
	viii)	A	1
	ix)	C	1
	x)	B	1
Q.2	i.	Each factor- 1 marks, (1 mark * 2)	2
	ii.	Each function of environment Protection law- 1 mark (1 mark * 3)	3
	iii.	Environmental Management system definition-1 mark Properties -2 marks Function – 2 marks	5
OR	iv.	Definition – 1 mark Description - 4 marks	5
Q.3	i.	Definition – 2 marks	2
	ii.	Definition and importance of each natural resources – 2 marks (2 marks* 2)	8

		Bad effects of each natural resource degradation – 2 marks (2 marks* 2)	
OR	iii.	Definition and importance of energy resource – 2 marks Description of renewable energy resource – 3 marks Description of non-renewable energy resource – 3 marks	8
Q.4	i.	Definition – 2 marks Examples -1 mark	
	ii.	Definition of pollution – 1 mark Explanation of cause of each type of pollution - 3 marks (3 marks * 2)	7
OR	iii.	Definition of pollution – 1 mark After effects of each pollution – 2 marks (2 marks * 3)	7
Q.5	i.	Definition of greenhouse effect – 1 mark Explanation – 3 marks	4
	ii.	Definition – 1 mark Causes – 2 marks Effects – 3 marks	6
OR	iii.	Definition – 1 mark Explanation – 5 marks Diagram – 1 mark	7
Q.6	i.	Definition of disaster – 1 mark Definition of disaster management – 1mark Explanation – 3 marks	5
	ii.	Introduction of case study – 1 mark Reason of disaster – 1 mark Description – 2 marks Conclusion – 1 mark	5
	iii.	Definition – 2 marks Ways of reducing – 1 mark (1 mark * 3)	5
