Total No. of Questions: 6

Total No. of Printed Pages:3

#### Enrollment No.....



# Faculty of Science End Sem Examination May-2024

### FS3AE03 Environmental Studies

Programme: B.Sc. (Hons.) Branch/Specialisation: Forensic

Science

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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. How many Sustainable Development Goals were adopted by the 1 United Nations in 2015?
  - (a) 16
- (b) 17
- (c) 18
- (d) 19
- The deadline for achieving SDGs is-
  - (a) 2025
- (b) 2026
- (c) 2029
- (d) 2030
- i. Which of the following is the richest biodiversity hotspot in India?
  - (a) Western Ghats
- (b) Eastern Himalayas
- (c) Sundarbans
- (d) Thar Desert
- iv. Which renewable energy source is produced by harnessing the natural **1** movement of water?
  - (a) Tidal energy
- (b) Geothermal energy

(c) Biomass

- (d) Nuclear energy
- v. Which regulatory body is responsible for setting noise pollution 1 standards in many countries?
  - (a) Environmental Protection Agency (EPA)
  - (b) World Health Organization (WHO)
  - (c) National Aeronautics and Space Administration (NASA)
  - (d) United Nations Environment Programme (UNEP)
- vi. The burning of fossil fuels for energy production is a major source of 1 which air pollutants?
  - (a) Carbon monoxide (CO) and sulfur dioxide (SO2)
  - (b) Nitrogen dioxide (NO2) and ozone (O3)
  - (c) Particulate matter (PM) and volatile organic compounds (VOCs)
  - (d) All of these

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[2]

	VII.	When was the Montreal Protocol on Substances that Deplete the Ozone Layer adopted?	1
		(a) 1972 (b) 1987	
		(c) 1992 (d) 2000	
	viii.		1
		Protocol?	
		(a) Protecting the ozone layer	
		(b) Reducing greenhouse gas emissions	
		(c) Regulating international trade	
		(d) Promoting renewable energy	
ix.	ix.	The Bishnoi community is known for their strong commitment to:	1
		(a) Animal sacrifice	
		(b) Environmental conservation	
		(c) Industrial development	
		(d) Political activism	
х.	х.	What was the major conservation issue that brought Silent Valley into	1
		the limelight during the 1970s?	
		(a) Deforestation for agriculture	
		(b) Hunting of endangered species	
		(c) Construction of a hydroelectric dam	
		(d) Pollution of water sources	
Q.2	i.	State the scope of environmental science.	2
	ii.	Define sustainable development. Write some examples.	3
	iii.	What is ecosystem? Specify its structure and function.	5
OR	iv.	Differentiate between food chain and food web with an example.	5
Q.3	i.	What is biodiversity hotspot? Give examples.	2
	ii.	Differentiate between renewable and non-renewable resources.	8
		Explain their importance.	
OR	iii.	Write at least four points on each-	8
		(a) Conservation of biodiversity	
		(b) Deforestation; its cause and preventive measures	
Q.4	i.	Define environmental pollution.	3
	ii.	What is noise pollution? Explain its cause and preventive measures.	7
OR	iii.	Define air pollution. Specify the impacts of air pollution on human health and on environment.	7

Q.5	i.	Write short note on-	4
		(a) Global warming	
		(b) Climate change	
	ii.	Write cause of acid rain and its preventive measures.	6
OR	iii.	Write a short note on-	6
		(a) Forest fire; its cause and preventive measures	
		(b) Ozone layer; its depletion and control measures	
Q.6		Attempt any two:	
	i.	Give a description on impacts of human population growth on environment and human health and welfare.	5
	ii.	Explain the concept of disaster preparedness and outline the steps individuals and communities can take to enhance their preparedness for natural disasters such as earthquakes or hurricanes.	5
	iii.	Explain any two environmental movements of India.	5

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### **Marking Scheme**

## Environmental Studies (T) - FS3AE03 (T)

Q.1	<ul> <li>i)</li> <li>ii)</li> <li>iii)</li> <li>iv)</li> <li>v)</li> <li>vi)</li> <li>vii)</li> <li>viii)</li> <li>ix)</li> <li>x)</li> </ul>	b.17 d.2030 a.Western Ghats a. Tidal energy b. World Health Organization (WHO) d.All of the above c. 1987 c. Reducing greenhouse gas emissions b. Environmental conservation c. Construction of a hydroelectric dam	1 1 1 1 1 1 1 1
Q.2	i. ii. iii.	At least 4 scopes. 2 will carry 1/2 mark Definition Example Definition Structure Function	2 2 1 1 2 2
OR	iv.	4 Differences (each will carry 1 mark) Example	4
Q.3	i. ii.	Definition Example (2 Exmple ,1 will carry ½ Marks) Differences (4 *1 = 4) Importance (2 *2 = 4)	1 1 4
OR	iii.	Explanation of Conservation of biodiversity  Definition 1 Marks  Importance 3 Marks  Explanation of Deforestation; its cause and preventive measures	4
Q.4	i. ii.	Definition Types Definition Causes	2 1 1 3
OR	iii.	Preventive measures Definition Impact on human health Impact on environment	3 1 3 3
Q.5	i.	Global warming, definition. Cause ,preventive ,Measurement Climate change definition. Cause ,preventive ,Measurement	2

	ii.	Cause of acid rain ,Definition 1 Marks	2
		Preventive measures	3
OR	iii.	Forest fire; its cause and preventive measures	3
		Ozone layer; its depletion and control measures	3
		For Both ( Definition 1 Marks , Cause 1 Marks , Preventive 1	
		Marks)	
Q.6			
2.0	i.	Impact of human population growth on environment	2.5
		Impact of human population growth on human health and welfare	2.5
	ii.	Disaster management	2.5
		Required steps	2.5
	iii.	2 environmental movements (each will carry 2.5 marks)	5

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