### PAPER ID—16151

# B.Tech. (Computer Science and Engineering (Cyber Security) EXAMINATION, 2024

(First Semester)

### BASICS OF ENVIRONMENTAL SCIENCES

Code: ENV-101

Time: 2 Hours Maximum Marks: 50

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note: Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

- 1. (i) Define Eco-system.
  - (ii) What are trophic levels?
  - (iii) What is food chain?
  - (iv) What are the reasons for soil salinity?
  - (v) Give two examples of renewable exhaustible natural resource.
  - (vi) What are secondary air pollutants?
  - (vii) ......attached to hemoglobin in blood for a long time, it accumulates and reduces the oxygen carrying capacity of blood.
  - (viii) World environment day is celebrated on which day?
  - (ix) Define disaster management.
  - (x) The unit used to measure noise is  $10 \times 1=10$

### Unit I

2. (a) Explain the importance of Environmental Studies. Elaborate the role of society to halt and reverse Environmental degradation.6

- (b) Comment on the negative role of societyin degrading the Environment.
- 3. What are various natural resources? Also explain role of individual in conservation of natural resources.

### Unit II

- 4. (a) What are the various components of ecosystem? Explain the role of these components in the functioning of any one ecosystem you have studied. 5
  - (b) Explain characteristics features, structure and function of forest ecosystem. 5
- 5. (a) What is food web? What is its significance?
  - (b) Explain characteristics features, structure and function of Grassland ecosystem. 5

### Unit III

6. (a) Define Water Pollution. Explain its causes and control measures.

		management strategies. 5
7.	(a)	Write a note on 'Noise Pollution'. 5
	(b)	Define Landslide. Discuss its types,
		causes and prevention measures. 5
		Unit IV
8.	(a)	Explain various urban problems related to energy. 3
	(b)	What are the main causes of ozone
		depletion? Explain. 4
	(c)	How can sustainable development be
		achieved?
9.	(a)	What do you understand by Watershed?
		Why is watershed management
		necessary? Discuss the methods of
		watershed management. 6
	(b)	Discuss the salient features of
		Environment Protection Act, 1986. 4

(b) Define Floods. Explain its types and

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### B. Tech. EXAMINATION, 2024

(First Semester)

# COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)

Code: ENV-101

Basics of Environmental Science

Time: 3 Hours Maximum Marks: 70

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note: Attempt Five questions in all. Q. No. 1

(Unit I) is compulsory. Attempt four more questions from Unit II.

# Unit I

1.	Writ	e short notes on the following:	
	(i)	Salinity	3
	(ii)	Methods to improve ground water	8
	(iii)	Disadvantages of deforestation	2
	(iv)	Renewable and non-renewable resources	5
		INIDHA QINA BURRUR ARTUMBO	3
	(v)	Disadvantages of fertilizers and	1
		pesticides.	and the
		Unit II	
2.	(a)	Explain the Aquatic eco systems in detail	. 7
	(b)	Explain Producers, consumers and	product
		decomposers in eco- system.	7
3.	(a)	Define Air pollution. Discuss its causes	,
		effects and control measures in detail.	
		alia ne amandan para mpera a pin	7
	(b)	Define Earthquake. Explain its reasons	5
		and how can we minimise its effect. 7	1

4. (a) Explain Wildlife Protection Act in detail.

7

(b) Explain Forest conservation Act in detail.

7

- Define Nuclear hazards. What are its causes and effects? Suggest some control measures also.
- Define water conservation. Explain rain water harvesting and its process in detail.
- 7. Explain global warming. What are its causes?

  Suggest solutions to reduce global warming.

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## B.Tech. EXAMINATION, 2023

(First Semester)

# COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)

Code: EVS-101

Basics of Environmental Science

Time: 3 Hours

Maximum Marks: 50

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note: There are seven questions in all and each question will be of 10 marks. The paper is divided into two units, Unit I and Unit II.

Unit I consisting of five short answer type questions covering entre syllabus is

compulsory. Attempt any four questions out of six questions from Unit II.

#### Umit I

- (a) What is climate change?
  - Discuss the multidisciplinary nature of (b) environmental studies
  - What do you understand by food chains? (c)
  - Briefly describe the effects of water (d) pollution.
  - Define Minerals. What are the uses of (e) minerals?  $2 \times 5 = 10$

### Unit II

- 2. Describe the biotic and abiotic components of 10 an ecosystem.
- How energy flow in an ecosystem ? 3. (a) Explain energy flow models used for an ecosystem.

- (b) Define ecological pyramids and explain various types of pyramids with suitable examples.

  5, 5
- 4. (a) What is the greenhouse effect? Mention some of the major greenhouse gases.

  Discuss the impacts of global warming on the environment.
  - (b) What is meant by acid rain? How does it form? What are its major impacts?

    5,5
- 5. (a) What is noise pollution? Discuss the major causes, effects and control measures of noise pollution?
  - (b) How we can conserve rainwater? Briefly explain the rainwater harvesting techniques. 5,5
- 6. (a) Write a brief note on Water Act, 1974.
  - (b) Write a note on the issues involved in enforcement of environmental legislations.

5,5

- 7. (a) How would environmental awareness in public help us to protect our environment?
  - (b) Write a note on the conflicts over water around us. 5,5