SEMESTER END EXAMINATION, APRIL-MAY, 2025

Course Name: - B.tech

Semester:- II

Paper Name: - Environmental Science

Paper Code:- NVA-203

Time - 3Hrs + 20 minutes per hour extra time for V.I. & examinees with writer.

Max Marks-70

Additional 30 Minutes for Mid-Test.

Instructions:

- The question paper consists of three sections namely A, B, C. All sections are compulsory.
- Section A- Each question carries 3 mark. All questions are compulsory.
- Section B- Answer any 5 out of 7 given questions. Each question carries 7 marks.
- SectionC- Answer any 2 out of 3 given questions. Each question carries 10 marks.
- · Section D- Each question carries 02 mark. All questions are compulsory.

Section - A (खण्ड-अ) Objective Questions(वस्तुनिष्ठप्रशन)

1. Answer all the following questions. निम्नलिखित सभी प्रश्न अनिवार्य हैं।

5x3 =15

- i) Environmental Protection Act came into force on
 - a) 1980

b) 1986

c) 1974

- d) 1981
- ii) Who had brings the concept of 'Hotspots of Biodiversity'?
 - a) Norman Myers
- b) Walter G. Rosen

c) E. P. Odum

- d) A G Tansley
- iii) Brackish water ecosystems are found in which of the following:
 - a) Streams

- b) Wetlands
- c) Coastal shallows
- d) Deltas

- iv) Eutrophication is
 - a) An improved quality of water in lakes
- b) A process in carbon cycle
- c) The result to accumulation of plant nutrients in water bodies
- d) A water purification technique
- v) Which among the following is a Green house gas?
 - a) Methane

b) Hydrocarbons

c) Phosphorous

d) Sulphur dioxide

Section - B (खण्ड-ब) Short Answer Questions (लघुउत्तरीय प्रश्न)

2. Answer any five of the following questions. निम्नलिखित में से किन्हीं पाँच प्रश्नों के उत्तर दें। 5x7=35

- i. Define Environmental Science. What are the scopes of studying Environmental Science?
 - ii. Explain the concept of Ecological succession with example?

6. What are th a) 18 What are the objectives of Air (Prevention & control of pollution) Act? c) 36 What is Green Chemistry? What are the different principles of Green Chemistry? iii. 7. Bhopal iv. Explain the Nitrogen and Phosphorus cycle. a) Ai V. Briefly tell about 'Chipkko Movement'. vi. Explain the process of formation and depletion of Ozone layer. 0) vii. Section - C (खण्ड-स) Descriptive Questions(विवरणात्मकप्रश्न) 2x10=20 3. Answer any two of the following question. निम्नलिखित में से किन्हीं दो प्रश्नों के उत्तर दें। 9. Illustrate the structure and function of an Ecosystem. i) Explain in brief the conservation method of Biodiversity. ii) What are the causes, effect and control measure of Water Pollution? iii) SEMESTER END EXAMINATION, APRIL-MAY, 2025 Mid-Test Semester:- 2nd Course Name: - B. Tech Paper Code:-NVA-203 Paper Name: - Environmental Science Max Marks-20 Time - 30 minutes. 2×10=20 All questions are compulsory. समीप्रश्नअनिवार्यहैं। Objective Questions. बहविकल्पीय प्रश्न। The pair of greenhouse gases are: b) CFC, CO . a) CO2, N2O d) CH₄, N₂ c) O2, CO2 Who discovered the term 'ecosystem'? ·b) AG Tansley a) EP Odum d) Norman Myers c) Charles Elton 3. Which one of the following is the cause of acid rain? b) Noise pollution Water pollution. d) Air pollution c) Land pollution 4. Which atmospheric layer contains Ions and helps in wireless communication? a) Troposphere b) Mesosphere c) Stratosphere d) Thermosphere 5. Integrated Crop Management (ICM) is defined as a process to: b) Using alternatives to inorganic fertilizers a) Use the traditional methods for and pesticides. growing crops. c) Both (a) and (b) d) Only (a)

6. What are the numbers of biodiversity hotspots in the world		y hotspots in the world?	
	a) 18	b) 28	
	c) 36	d) 32	
7.	Bhopal tragedy was caused due to		
	a) Air pollution	b) Water pollution	
	c) Leakage of poisonous gas	d) Emission of poisonous gas	
8.	'Smog' is a mixture of		
	a) Snow and Fog	b) Smoke and Fog	
	c) Sulphur dioxide and Fog	d) Snow and Dust	
).	is the hotspot of Biodiv	ersity in India.	
	a) Gangetic plains	b) Sunderbans	
	c) Eastern ghats	d) Western ghats	
0.	Pyramid of biomass for Aquatic ecosystem is		
	a) Upright	b) Spindle shape	
	c) Inverted	d) None of the above	
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SEMESTER END EXAMINATION, APRIL-MAY, 2025

Course Name: - B.tech

Semester:- 2nd

Paper Name: - Environmental Science

Paper Code:- NVA-203

Time - 3Hrs + 20 minutes per hour extra time for V.I. & examinees with writer.

Max Marks-70

Additional 30 Minutes for Mid-Test.

Instructions:

- The question paper consists of three sections namely A, B, C. All sections are compulsory.
- Section A- Each question carries 3 mark. All questions are compulsory.
- Section B- Answer any 5 out of 7 given questions. Each question carries 7 marks.
- SectionC- Answer any 2 out of 3 given questions. Each question carries 10 marks.
- · Section D- Each question carries 02 mark. All questions are compulsory.

Section - A (खण्ड-अ)

Objective Questions(वस्तुनिष्ठप्रशन)

1. Answer all the following questions. निम्नलिखित सभी प्रश्नअनिवार्य हैं।

5x3 = 15

- i) The Air (Protection & Control) Act came into force on
 - a) 1980

b) 1986

c) 1974

- d) 1981-
- ii) The Major reservoir for Phosphorous is
 - a) Aquifers
- b) Soil and rocks
- c) The Atmosphere
- d) Clouds
- iii) The term 'detrivore' includes
 - a) Decomposers
- b) Primary consumers
- c) Secondary consumers
- d) Producers
- iv) Which atmospheric layer contains Ozone?
 - a) Troposphere
- b) Thermosphere
- c) Stratosphere
- d) Mesosphere
- v) Which One of the Following is a Greenhouse Gas?
 - a) Carbon monoxide
- b) Nitrogen dioxide
- c) Sulphur dioxide
- d) Nitrous oxide *

Section - B (खण्ड-ब) Short Answer Questions (लघुउत्तरीय प्रश्न)

2. Answer any five of the following questions. निम्नलिखित में से किन्हीं पाँच प्रश्नों के उत्तर दें।

5x7=35

- i. What is Natural Resources? Classify it.
- ii. What are the different spheres of the Earth?
- iii. Explain the concept of Food chain and food web with example?
- iv. What are the objectives of Wildlife Protection Act, 1972?

- v. Illustrate the composition of soil and also explain its formation?
- vi. What do you understand by Biodiversity? Classify different types of Biodiversity.
- vii. Briefly explain in detail about the 'Narmada Bachao Andolan'.

Section - C (खण्ड-स) Descriptive Questions (विवरणात्मकप्रश्न)

3. Answer any two of the following question. निम्नलिखित में से किन्हीं दो प्रश्नों के उत्तर दें।

2x10=20

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- i) What is Ecological Pyramids? Explain different types of Ecological Pyramids with examples.
- ii) Explain in brief the 'Hotspots of Biodiversity'.
- iii) What are the causes, effect and control measure of Air Pollution?

SEMESTER END EXAMINATION, APRIL-MAY, 2025 Mid-Test

Course Name: - B.Tech

Paper Name: - Environmental Science

Time - 30 minutes.

Semester:- 2nd

Paper Code:-NVA-203

Max Marks-20

All questions are compulsory. समीप्रश्नअनिवार्यहेँ।

2×10=20

Objective Questions. बह्विकल्पीय प्रश्न।

- 1. Which power plant works on the basis of gravity of earth?
 - a) Hydropower

b) Wind energy

c) Geothermal

- d) Nuclear power
- 2. Which of the following Acts is popularly known as Umbrella Legislation?
 - a) The Water (Prevention and Control of Pollution) Act, 1974
- b) The Environment (Protection) Act, 1986.
- c) The Wildlife Protection Act, 1972, 1948
- d) The Air (Prevention and Control of Pollution) Act, 1981
- 3. Which of the following are major environmental issues involved in mining?
 - a) Air pollution from dust
- b) Water pollution

c) Soil degradation

- d) All the above -
- 4. Which of the following pyramids is always upright?
 - a) Pyramid of numbers
- b) Pyramid of biomass
- c) Pyramid of energy .
- d) None of the above

5.	Which of the following is not an environ	nmental problem?
	a) Genetic modification of food	b) Afforestation
	c) Acid Rain	d) Loss of Biodinaria
6.	What is the name of the species whose p	population has been reduced to a critical level?
	a) Endangered ·	b) Rare
	c) Vulnerable	d) Extinct
7.	is an example of an ex-situ	
	a) Sacred groves	b) Wildlife sanctuary
	c) Seed bank	d) National park
8.	Sustainable development means	
	a) meeting present needs with compromising on future needs	(b) balance between human needs and the ability earth to provide the resources.
	c) progress of human beings	d) all of the above -
9.	Chipko movement was first led by	
	a) Rajiv Gandhi	b) Sunderlal Bahuguna.
	c) Ramdev Mishra	d) None of the above
10.		ontributed maximum to the global warming?
	a) Industrial processes	b) Deforestation
	c) Fossil fuel combustion.	d) Agriculture
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