

SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA

School of Biotechnology

B.Tech. (Computer Sciences, Mechanical Engineering, Electrical Engineering and Electronic & Communication Engineering) Mid-Semester Examination (Odd) 2022-23

Entry No:

2 1 B E C 1 2 7

Total Number of Pages: [01]

Date: 27-09-2022

Total Number of Questions: [03]

Course Title: Environmental Studies; Course Code: BITL 2304

Note: Attempt all the Questions; support your answers with freehand sketches/diagrams, wherever appropriate.

Time Allowed: 1.5 Hours

Max Marks: [20]

Section – A

- Q1. a) The word 'Environ' means..... [01] CO1
b) World Environment Day is celebrated on..... [01] CO1
c) With respect to ecosystem, plants are..... [01] CO1
d) Which one of the following is non-renewable energy source? (Coal, Wind, Solar, Hydel) [01] CO2
e) Forests have ecological and role to play in global climate change. [01] CO2
f) Ecosystem can be as small as pond. (True or False). [01] CO1
- Q2. Attempt any two questions [02] CO2
(a) Define renewable and nonrenewable resources. [02] CO1
(b) Give graphical representation of pyramid of biomass and number in pond. [02] CO1
(c) Define ecosystem with an example. [02] CO1
(d) Define forest/forest ecosystem and list any two issues associated to it. [02] CO3
(e) Define ecological footprint.

Section – B

- Q3. Attempt any two questions. [05] CO2
(a) Write various functions of forest. [05] CO1
(b) Give the graphical representation multidisciplinary nature of environmental studies. [05] CO1
(c) Explain ecological pyramids of number and energy. [05] CO3
(d) Discuss briefly the various problems and solutions of food resources.

SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA

School of Biotechnology

B.Tech. (Computer Sciences, Mechanical Engineering, Electrical Engineering and Electronic & Communication Engineering) Minor II-
Semester Examination (Odd) 2022-23

Entry No:

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Date: 09-11-2022

Total Number of Pages: [01]

Total Number of Questions: [03]

Course Title: Environmental Studies; Course Code: BTL 2304

Note: Attempt all the Questions; support your answers with freehand sketches/diagrams, wherever appropriate.

Time Allowed: 1.5 Hours

Max Marks: [20]

Section – A		
Q1. a	(g) Define pollution.	[01] CO1
b	(h) Ozone at ground level act as pollutant. (True/False)	[01] CO1
c	(i) Full form of BOD is	[01] CO2
d	(j) Oxides of Nitrogen are one of causative agent of acid rain. True/False.	[01] CO2
e	(k) Rain water is the only source of freshwater on the Earth. (True/False)	[01] CO2
f	(l) An extensive number of chains interlinked in an ecosystem form a ----- together. (Food chain/Food web/Carbon cycle/Nitrogen cycle).	[01] CO1
Q2.	Attempt any two questions	
	a. Define ecological succession and its types.	[02] CO1
	b. Write the uses of grasslands.	[02] CO2
	c. Describe any two differences between infectious and non-infectious diseases.	[02] CO2
	d. Briefly discuss a case study associated with nuclear disaster in India.	[02] CO1
	e. Name any two coal mines having an environmental issue.	[02] CO1
Section – B		
Q3.	Attempt any two questions.	
	a. Write the various effects of air pollution on living beings and materials.	[05] CO2
	b. Write a detail note on ground water pollution.	[05] CO1
	c. Mention any FIVE environmental issues associated with making of big river valley projects.	[05] CO1
	d. Discuss any THREE methods of Solid Waste management.	[05] CO3

SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA

School of Biotechnology

Major Exam. (Even Semester) 2024-25

Entry No:

23BEC054

Total Number of Pages: [01]

Date: 30-07-2025

Total Number of Questions: [02]

Course Title: Environmental Science & Education, Course Code: BTL VA102

Time Allowed: 3.0 Hours

Max Marks: [40]

Instructions / NOTE

- iv. Attempt All Questions.
- v. Support your answer with neat freehand sketches/diagrams, wherever appropriate.
- vi. Assume an appropriate data/information, wherever necessary/missing.

Section – A (Attempt any four questions)

- | | Marks | CO |
|---|-------|-----|
| Q1. (g) What are the greenhouse gases and their various causes of increasing levels in the environment? | [05] | CO1 |
| (h) Describe the various threats to biodiversity. | [05] | CO1 |
| (i) Describe the four major types of ecosystem services with examples. | [05] | CO2 |
| (j) Describe the distribution of any one natural resource worldwide. | [05] | CO1 |
| (k) Describe the biodiversity conservation methods. | [05] | CO1 |
| (l) Describe the causes of soil degradation. | [05] | CO1 |

Section – B (Attempt any two questions)

- | | | |
|--|------|-----|
| Q2. (e) Describe the environmental components: atmosphere, lithosphere, and hydrosphere. | [10] | CO1 |
| (f) Describe the air pollutants and their effects. | [10] | CO1 |
| (g) Describe the causes of water pollution. | [10] | CO1 |
| (h) Explain in detail the key components (segregation, collection, reduction, reuse, recycle) of solid waste management. | [10] | CO2 |

Course Outcomes:

After successful completion of this course, students will be able to;

- 3. Understand the basics of environmental sciences
- 4. Understand the concerns related to sustainable development on the environment and health.

CO	Questions Mapping	Total Marks	Total Number of Students (to be appeared in Exam)
CO1	Q1a, b, d-f, Q2a-c	55	
CO2	Q1c, Q2d	15	

SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA

School of Biotechnology

Major Exam. (Even Semester) 2024-25

Entry No:

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Total Number of Pages: [01]

Date: 30-07-2025

Total Number of Questions: [02]

Course Title: Environmental Science & Education, Course Code: BTL VA102

Max Marks: [40]

Time Allowed: 3.0 Hours

Instructions / NOTE

- iv. Attempt All Questions.
- v. Support your answer with neat freehand sketches/diagrams, wherever appropriate.
- vi. Assume an appropriate data/information, wherever necessary/missing.

Section – A (Attempt any four questions)

- | | | |
|---|------|-----|
| Q1. (g) What are the greenhouse gases and their various causes of increasing levels in the environment? | [05] | CO1 |
| (h) Describe the various threats to biodiversity. | [05] | CO1 |
| (i) Describe the four major types of ecosystem services with examples. | [05] | CO2 |
| (j) Describe the distribution of any one natural resource worldwide. | [05] | CO1 |
| (k) Describe the biodiversity conservation methods. | [05] | CO1 |
| (l) Describe the causes of soil degradation. | [05] | CO1 |

Section – B (Attempt any two questions)

- | | | |
|--|------|-----|
| Q2. (c) Describe the environmental components: atmosphere, lithosphere, and hydrosphere. | [10] | CO1 |
| (f) Describe the air pollutants and their effects. | [10] | CO1 |
| (g) Describe the causes of water pollution. | [10] | CO1 |
| (h) Explain in detail the key components (segregation, collection, reduction, reuse, recycle) of solid waste management. | [10] | CO2 |

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CO2	Q1c, Q2d	15	