

Department of Botany
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B.Sc. (Hons. with Research) / B.Sc. (Hons.) Botany
I SEMESTER EXAMINATION FEBRUARY-MARCH 2024

Paper Name: **Environmental Sciences**

Paper Code: **BCR-VAC101**

Time: **1½ hours**

Maximum Marks: **30**

Note: This paper has 3 sections A, B, and C.

Section A: Attempt any 8 out of 10. **Section B:** Attempt any 4 out of 5.

Section C: Attempt any 2 out of 3.

Instructions: An equal representation of each course outcome should be done in each section.

Abbreviations used:

CO-Course Outcomes

CLO 1: identify the concepts related to the environmental global scenario (remember);

CLO 2: comprehend the natural resources and environmental organizations (understand);

CLO 3: apply the acquired knowledge to sensitize individuals and public about the environmental crisis (apply);

CLO 4: analyze the causes and changes in the structure of biodiversity (analyze); and

CLO 5: enhance their skills in the society by solving the environmental problems and preserving nature by the acquired knowledge (evaluate).

BTL-Bloom's Taxonomy Levels

1- Remembering, 2-Understanding, 3-Applying, 4-Analyzing, 5-Evaluating, 6-Creating

SECTION A

Very Short Type Question (Attempt any eight out of ten)

8 x 1 = 8 marks

Q.No.	Questions	Marks	CO	BTL
1	_____ resources are irreplaceable after they are used.	1	1	1
2	_____ is a mixture of smoke and fog	1	3	3
3	_____ is defined as the process or state of environment that can be maintained indefinitely.	1	1	1
4	In Bhopal Gas tragedy in 1984, at the Union Carbide India Limited, _____ gas leaked.	1	3	1
5.	When primary pollutants combine with each other they form several _____ pollutants.	1	1	1
6.	Silent Valley National park is located in _____ state of India.	1	3	1
7.	Sound is measured in units called _____.	1	5	1
8.	IUCN stands for _____.	1	1	1
9.	Species that anchor/house many species with itself in the food chain and food pyramid are called _____ species.	1	2	5
10.	_____ is the lowest layer of earth's atmosphere.	1	1	1

SECTION B

Short Type Question. (Attempt any four out of five)

4 x 3 = 12 marks

Q.No.	Question	Marks	CLO	BTL
1	What is the difference between food chain and food web?	3	1	3
2	What is water pollution? How is the point source of pollution different from the diffused/non-point source of pollution?	3	3	4
3	Discuss the importance of Chipko movement.	3	5	4
4	What are the effects of air pollution on living organisms?	3	5	5
5	What is the importance of solid waste management?	3	3	6

SECTION C

Long type Question (Attempt any two out of three)

2 x 5 = 10 marks

Q.No.	Question	Marks	CO	BTL
1	What do you understand by conservation? Discuss briefly, the steps taken at governmental level to conserve wildlife.	5	3	5
2	What are the various levels of Biological diversity?	5	4	2
3	What is a Disaster? Discuss causes of landslides in view of the latest landslide episodes in Uttarakhand? What steps can be taken to prevent such disaster?	5	3	5,6
