

**School of Chemical & Life Sciences
Jamia Hamdard, New Delhi-110062**

**B.Sc. (HONS WITH RESEARCH) / B.Sc. HONS.
I SEMESTER EXAMINATION JANUARY 2025**

Paper Name: **Environmental Sciences**

Paper Code:**VAC101**

Time: **1½ hours**

Maximum Marks: **30**

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

Section A: Answer all the questions. **Section B:** Attempt any 4 out of 6.

Section C: Attempt any 2 out of 3.

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 (15 questions)

8 x 1 = 8 marks

Q.No.	Questions	Marks	CO	BTL
1	Suggest an alternative term for "Biosphere".	1	1	1
2	What are the main sources of carbon ?	1	2	1
3	Name the three major biotic components of an ecosystem.	1	2	1
4	List any two global environmental treaties.	1	1	1
5	Give an example of an invasive species?	1	4	2
6	Define "fossil fuel".	1	2	1
7	Enlist an effective way to manage household waste?	1	5	3
8	Mention two key functions of the United Nations Environment Programme (UNEP).	1	2	1

Please turn over

SECTION B

Short Type Question (Attempt any four out of Six)

4 x 3 = 12 marks

Q.No.	Question	Marks	CO	BTL
1.	What are the environmental, social and economic consequences of large scale mining operations ?	3	5	4
2.	Define natural resources and give two examples each of renewable and non-renewable resources.	3	2	2
3.	What are biotic and abiotic resources? Give examples	3	2	2
4.	Mention two ways individuals can promote waste management in their community.	3	5	4
5.	What is the role of invasive species in biodiversity changes?	3	4	2
6.	Elucidate the “Green House Gases”.	3	3	4

SECTION C

Long type Question (Attempt any two out of three)

2 x 5 = 10 marks

Q.No.	Question	Marks	CO	BTL
1.	Discuss the ecological and economic significance of forest resources, highlighting their role in maintaining ecosystem balance and supporting human livelihoods.	5	2	4
2.	Write all you know about a flow of energy in an ecosystem.	5	3	4
3.	Explain the natural and human-induced causes of biodiversity loss, with examples.	5	4	5

*****END OF QUESTION PAPER*****