



WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 5th Semester Examination, 2023-24





Time Allotted: 2 Hours

The figures in the margin indicate full marks. Candidates should answer in their own words and adhere to the word limit as practicable. All symbols are of usual significance.

	All symbols are of usual significance.		
1.	Answer the following questions:		1×16 = 16
(2)	What is sustainable utilization of natural resources?	+	

- (c) What is Red Data Book?
- (d) What is carbon footprint?
- (e) Define ex-situ conservation.
- (f) What do you mean by biodiversity hot-spot?
- (g) Write down scientific name of one plant species found within mangrove ecosystems.
- (CBD) was adopted?
- (i) Why is waste considered as one of the main environmental issues?

(b) Distinguish between genetic diversity and species diversity.

- (j) What is biofuel?
- (k) What is the full form of IPR?
- (1) Define National Park.
- (m) Differentiate between the concepts of species richness and species evenness within an ecosystem.
- (n) Name any two methods of water conservation.
- (o) Name one radio-active isotope that extensively applied in nuclear energy production.
- (p) What is meant by NTFP?

2.	Answer any eight questions from the following:	$3\times8=24$
(a)	Enumerate the key indicators of soil degradation. How does soil degradation impact different ecosystem services?	1+2
(b)	Mention the name of the two most common non-renewable energy sources. How does non-renewable energy contribute to the environment?	1+2
-(c)	Briefly discuss the ecological roles performed by wetlands and main treats they are facing in the current era.	1+2
/(d)	Expand the acronym UNESCO. Explain the role of UNESCO in the conservation of Biodiversity.	1+2
(e)	Differentiate between afforestation and deforestation.	3
(f)	Discuss in brief the role of Biosphere Reserve in the conservation of biological diversity.	3

Turn Over

CBCS/B.Sc./Hons./5th Sem./BOTADSE01T/2023-24

	Explain about sustainable use and conservation of natural resources. Write a short note on the Ecological Footprint.	3
. ,	Outline the major goals and objectives of the National Biodiversity Action Plan (NBAP) in preserving India's rich biodiversity and promoting sustainable resource utilization.	$\frac{3}{1\frac{1}{2}+1\frac{1}{2}}$
(j)	What are the major and minor forest products? Briefly describe non-timber forest products.	$1\frac{1}{2}+1\frac{1}{2}$
(1)	Write a short note on ZSI emphasising its role in resource management. What is Environmental Impact Assessment (EIA)? Briefly discuss the key benefits of conducting EIA.	3 1+2