

M.Sc. (Botany) Semester - 2 (CBCS) Examination
April/May-2023 (OLD COURSE)
ENVIRONMENTAL SCIENCE(CORE)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

Que. 1 Answer the Following. (Any seven out of ten questions) (14)

1. Give any two definitions of environmental science.
2. How soil pollution can be controlled?
3. Differences in between realized and fundamental niche.
4. List out floras of desert biome.
5. Why scales of meteorology are important?
6. Describe scopes of environment science.
7. Explain the importance of botanical garden.
8. Which are the major environmental problems?
9. Describe primary production.
10. Describe decomposition.

Que. 2 Answer the Following. (Any two out of three) (14)

1. Write about physico-chemical and biological factors in the environment, geographical classification and zones.
2. Describe scale of meteorology, pressure, temperature, precipitation, humidity, radiation and wind.
3. Describe atmospheric stability, inversions and mixing heights, windroses.

Que. 3 Answer the Following. (14)

1. Principles and scope of ecology, Human ecology and human settlement.
2. Describe boreal biome, taiga, tundra, chapparal and tropical savanna.

OR

Que. 3 Answer the Following.

1. Make a note on food chains, food web, ecological pyramids, population.
2. Write short note on prey-predator relationships and community ecology.

Que. 4 Answer the Following. (Any two out of three) (14)

1. Methods of monitoring and control of air pollution SO₂, NO_x, CO, SPM.
2. Sources and consequences of water pollution, physio-chemical and bacteriological sampling and analysis of water quality.
3. Write about industrial waste effluents and heavy metals, their interactions with soil components.

Que. 5 Write short note on any two out of four. (14)

1. Generalized approach to impact analysis.
2. Environmental impact statement and environmental management plan, Impact Assessment methodologies.
3. Procedure for reviewing environmental impact analysis and statement.
4. Remote sensing and its applications, Application of GIS in Environmental management.
