

M.Sc. (Zoology) Semester - 2 (CBCS) Examination
April/May-2023 (NEW 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. What is the importance of pollinators?
2. Write examples of niche width and overlap.
3. List out floras and fauna of tundra biome.
4. Write differences in between realized and fundamental niche.
5. Explain in short: concept of climax.
6. What is normal lapse rate?
7. Write about greenhouse gases and their sources.
8. Name some blood parasites.
9. What is chemical composition of earth crust?
10. Write the name, locations and area of national park of Gujarat.

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

1. Write differences in between r and K selection with examples for each point.
2. Make a note on: niche overlap, resource partitioning and character displacement.
3. Make a note on: interspecific competition, carnivory and symbiosis.

Que.3 Answer the Following. (14)

1. Describe marine and estuarine ecosystem.
2. Write types, mechanisms and changes involved in succession.

OR

Que.3 Answer the Following.

1. Make a note on: edges, ecotones and decomposition.
2. Write short note on structure and function of aquatic ecosystem.

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

1. Give an overview of sanctuaries of Gujarat.
2. Describe prey-predator relationships with examples.
3. Write about boreal biome, chaparral and tropical savanna.

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

1. Primary and secondary pollutants & Methods of monitoring and control of air pollution.
2. Water quality standard, soil pollution and soil pollution control.
3. Clean development mechanism & Applications of GIS and Remote sensing.
4. Procedure for reviewing environmental impact analysis & EIA Methodologies.
