

M.Sc. (Botany) Semester - 2 (CBCS) Examination
May/June-2022 (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) List out application of GIS.
- (2) Give any four differences in between fundamental and realized niche.
- (3) Write about resource partitioning.
- (4) Explain "Primary production".
- (5) How decomposition occurs at marine biome?
- (6) What do you understand by age structured populations?
- (7) Explain ecotones.
- (8) Describe scope of environmental science.
- (9) Explain composition of atmosphere in short.
- (10) Describe niche width and overlap.

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

- (1) Describe life history strategies (r and K selection) in detail.
- (2) Write about species interactions with examples.
- (3) Draw and explain population growth curves in details.

Que. 3 Answer the Following. **(14)**

- (1) Describe structure and function of terrestrial ecosystems.
- (2) Explain marine ecosystems.

[OR]**Que. 3 Answer the Following.**

- (1) Describe community ecology. **(05)**
- (2) Describe types, mechanisms and changes involved in succession. **(05)**
- (3) Describe fresh water ecosystem. **(04)**

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

- (1) Write short note on lithosphere.
- (2) Explain parasitism with examples.
- (3) Describe marine and Gir national park.

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

- (1) Clean development mechanism.
- (2) Sewage and waste water treatment.
- (3) Air quality standards.
- (4) Procedure for reviewing environmental impact analysis.
