

M.Sc. (Botany) Semester - 2 (CBCS) Examination
March/April – 2026 (As Per Syllabus Year-2023)
Environmental Sciences (Core)

Time: 2:30 Hours

Marks:70

Instructions:

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

Que.1 Explain following concept/ Term (Any seven out of eight) (14)

- (1) Autogamy
- (2) Interspecific Competition
- (3) Commensalism
- (4) J-shaped Curve
- (5) Immigration
- (6) Population Crash
- (7) Amensalism
- (8) Carrying Capacity

Que.2 Answer any two out of three. (14)

- (1) Write examples of **r selection** (Life history strategy) and describe.
- (2) Write about: Examples of niche width, resource partitioning and niche overlap.
- (3) Describe examples interspecific competition, carnivory and pollination.

Que.3 Answer any two out of three. (14)

- (1) Describe Ecological succession in detail.
- (2) Write a short note on a few ecosystems of Gujarat.
- (3) Write about edges and ecotones with examples.

Que.4 Answer any two out of three. (14)

- (1) Describe Marine National Park including area, Important fauna and conservation aspects.
- (2) Which one is more advanced prey or predators? How? Justify.
- (3) Explain Parasitism.

Que.5 Answer any two out of three. (14)

- (1) Explain Types and Sources of water pollution.
- (2) What is the need of clean development mechanism? Explain.
- (3) Describe Air quality standard
