

AU-312

M.Sc. Semester—II (CBCS Scheme) Examination
ZOOLOGY
Paper—VIII
(Environment and Ecology) (Also GIC)

Time : Three Hours]

[Maximum Marks : 80

Note :— (1) All questions are compulsory.

(2) All questions carry equal marks.

(3) Draw well labelled diagrams wherever necessary.

1. Explain the following :

- (a) Physical environment
- (b) Simpson's diversity index
- (c) Character displacement
- (d) Symbiosis.

OR

- (e) Population growth curves
- (f) Shannon's diversity index
- (g) Concept of metapopulation
- (h) Niche width and overlap.

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2. Give an account on ecological succession.

OR

Give an account on major terrestrial biomes and add a note on theory of Island biogeography.

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3. Explain the following :

- (i) Global dimming
- (j) Biodiversity management approaches
- (k) Effects of water pollution
- (l) Biodegradation.

OR

- (m) Economics of Biodiversity
- (n) Sources and nature of air pollution
- (o) Global warming
- (p) Documentation of biodiversity.

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4. Explain the following :

- (q) Project Tiger
- (r) Effects of free radicals
- (s) Phase-II reaction of detoxification
- (t) Metabolism of alcohol.

OR

- (u) Sanctuaries and National parks
- (v) Effects of organophosphate
- (w) Biosphere reserves
- (x) Metabolism of alkaloids.

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5. Give an account on environment impact assessment of reservoir.

OR

Give an account on Inter government policy for climate change.

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