

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

Time : Three Hours]

[Maximum Marks : 80

- N.B. :—** (1) All questions are compulsory.
(2) All questions carry equal marks.
(3) Draw well labelled diagram wherever necessary.

1. Discuss concept of habitat and niche with suitable examples.

OR

Discuss species interaction with reference to symbiotic relationship with suitable examples. 16

2. Explain the following :

- (a) Alpha diversity
- (b) Carbon cycle
- (c) Central Indian grassland ecosystem
- (d) Trans-Himalayan zone.

OR

- (e) Beta diversity
- (f) Nitrogen cycle
- (g) Estuarine ecosystem
- (h) Desert biogeographical zone.

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3. Describe the following :

- (i) Effects of air pollution
- (j) Biotechnological method of water pollution treatment
- (k) Causes of global warming
- (l) Biodiversity monitoring through remote sensing.

OR

- (m) Effects of water pollution
- (n) Biotechnological methods of air pollution treatment
- (o) Global dimming
- (p) Drivers of biodiversity change.

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4. Discuss in detail metabolism and effects of organochlorine pesticides with suitable examples.

OR

Discuss efforts and significance of Tiger projects in India. 16

5. Explain the following :

- (q) Role of IPCC
- (r) Laws related to air pollution in India
- (s) IPR
- (t) Environmental impact assessment of coal mines.

OR

- (u) Role of EPA
- (v) Laws related to biodiversity conservation in India
- (w) Patent offices in India
- (x) Environmental impact assessment of thermal power station. 16