

Roll No.

Total Pages : 2

CMDE/M-24

4687

CONSERVATION AND BIODIVERSITY

Paper–MES–202

Time Allowed : 3 Hours]

[Maximum Marks : 80

Note : Attempt **five** questions in all, selecting **one** question from each Unit. Question No. **1** is compulsory. All questions carry equal marks.

Compulsory Question

1. Explain the following : 8×2=16
- (a) Biosphere reserves
 - (b) Cryopreservation
 - (c) Threatened species
 - (d) Convention on biological diversity
 - (e) Mangroves
 - (f) Genetic variation
 - (g) Species richness.
 - (h) MVP.

UNIT–I

2. Explain the following :
- (a) Conservation Biology.
 - (b) Genetic drift and Genetic swamping. 8,8

3. What are the levels of biodiversity? Describe significance of levels and indices used for biodiversity. 16

UNIT–II

4. What is biodiversity gradient? Discuss patterns of biodiversity and factors affecting them. 16
5. Discuss Biodiversity and Ecosystem functioning of Marine hotspots. 8,8

UNIT–III

6. Explain the following:
- (a) Biodiversity assessment
 - (b) IUCN Threat categories. 8,8
7. Define species extinction. Explain various threats to biodiversity. 4,12

UNIT–IV

8. Explain the following :
- (a) IPR and Patents
 - (b) Gene banks. 8,8
9. Write about various national and international efforts taken up for biodiversity conservation. 16