No. of Printed Pages : 4

MEVE–14

M. SC. (ENVIRONMENTAL SCIENCE)

(MSCENV)

Term-End Examination

June, 2024

MEVE–14 : BIODIVERSITY CONSERVATION AND MANAGEMENT

Time : 3 Hours *Maximum Marks : 100*

Note **:** (*i*) *Answer* any ***ten*** *questions.*

(*ii*) *All questions carry equal marks.*

---

1. Define biodiversity. Describe genetic diversity, species diversity and ecosystem diversity with suitable examples. 2+8

2. Explain various types and subtypes of biodiversity values with examples. 10

3. Write short notes on any *two* of the following : 5×2=10

   (i) Ecosystem services

   (ii) Biodiversity estimation

   (iii) IUCN threatened categories

4. Discuss the major natural and anthropogenic drivers of biodiversity loss. 10

5. Explain the interlinkages between biodiversity and climate change with suitable examples. Highlight the role of biodiversity in climate change mitigation. 5+5

6. Write notes on indigenous knowledge systems and bio-piracy with examples. 5+5

7. Define conservation biology. Discuss biodiversity hotspots and their role in biodiversity conservation. 2+8

8. What are protected areas ? Describe types of protected area and their management. 2+8

9. Describe *in-situ* and *ex-situ* conservation in detail. 10

10. Write notes on the following : 2.5×4=10

    (i) Urban planning

    (ii) Sustainable cities

    (iii) Sacred grooves

    (iv) Peoples' movement for biodiversity conservation

11. Explain the role of convention of biodiversity and United Nations framework convention on climate change in biodiversity conservation. 5+5

12. Describe any *five* India's national biodiversity laws, legislation or policies for biodiversity conservation. 10

13. Describe characteristics, concept and principles of ecosystem approach. 10

14. What is sustainable harvesting ? Describe sustainable harvesting of forest and agriculture resources. 10