MEV–024

POST GRADUATE CERTIFICATE IN CLIMATE CHANGE (PGCCC)

Term-End Examination

December, 2023

MEV-024 : CLIMATE CHANGE ASSESSMENT TOOLS

Time : 3 Hours   *Maximum Marks : 100*

Note : *Attempt any **ten** questions. Each question carries equal marks.*

1. Describe the methods for analysing climate change vulnerability.   10

2. Explain the factors contributing to social vulnerability.   10

3. What is crop simulation model ? Discuss the structure of crop simulation model.   2+8=10

4. Write short notes on the following :   5+5=10

    (a) Adaptive capacity

    (b) Sensitivity

5. Discuss the applications of crop model.   10

6. What is GIS ? Write a note on the components of GIS. 2+8=10

7. Explain the interactions of electromagnetic radiation with atmosphere and the Earth surface. 10

8. Write short notes on the following : 5+5=10

    (a) Raster Data Model

    (b) Vector Data Analysis

9. Discuss the characteristics of Life Cycle Assessment (LCA). 10

10. Write short notes on the following : 5+5=10

    (a) General Circulation Models

    (b) Regional Climate Models

11. What is carbon sequestration ? Enumerate the strategies to augment carbon sequestration.

    2+8=10

12. Write a note on applications of geoinformatics in climate change studies. 10

13. Write short notes on the following : 5+5=10

    (a) Spatial Data Infrastructure

    (b) Climate change adaptation

14. Write short notes on the following : 5+5=10

    (a) Risk management

    (b) Early warning system

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