MEV-024

POST GRADUATE CERTIFICATE IN CLIMATE CHANGE (PGCCC)

Term-End Examination

June, 2020

MEV-024 : CLIMATE CHANGE ASSESSMENT TOOLS

Time : 3 Hours   *Maximum Marks : 100*

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

(ii) *All questions carry equal marks.*

1. Explain the different approaches to vulnerability research.   10

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

   (a) Adaptive capacity

   (b) Sensitivity

3. Explain the factors contributing to social vulnerability.   10

4. Describe the structure of crop simulation models.   10

5. Explain the following : $5 + 5 = 10$

   (a) Deterministic model

   (b) Stochastic model

6. Explain the limitations of crop simulation modelling.   10

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

   (a) Vector data analysis

   (b) Raster data analysis

8. Describe the applications of Life Cycle Assessment (LCA).   10

9. Explain the carbon isotopic fractionation during photosynthesis.   10

10. Explain the different approaches for GHG inventories.   10

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

    (a) Models of electromagnetic radiation

    (b) Electromagnetic spectrum

12. Explain 'the energy interactions with the atmosphere and the earth surface.   **10**

13. Give an account of the different types of remote sensors.   **10**

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

    (a) Spatial data infrastructure

    (b) Risk assessment

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