

No. of Printed Pages : 3

MEV-024

**POST GRADUATE CERTIFICATE IN
CLIMATE CHANGE (PGCCC)**

Term-End Examination

December, 2022

**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. Differentiate between contextual and outcome vulnerability. Describe methods for analyzing vulnerability. 10
2. Describe construction of climate change vulnerability index with suitable examples. 10
3. Write a note on social vulnerability analysis. Explain the factors contributing to social vulnerability. 10

P. T. O.

4. What are input factors and input data for crop model ? Explain model uncertainty analysis. 10
5. Write a note on crop model. Explain the applications and limitations of a crop model. 10
6. Explain crop simulation model taking info crop model as a case study. 10
7. Write a note on remote sensing. Explain its type and applications. 10
8. Explain data models in GIS. Compare between vector data analysis and raster based analysis. 10
9. Explain the characteristics of life cycle assessment. Describe applications of life cycle assessment with examples. 10
10. Describe the application of simulation models for analysing the vulnerability of crops to climate change within the help of a case study.

[3]

11. Write short notes on any *two* of the following :

5 each

(i) Stable carbon isotopes

(ii) Carbon isotopes enrichment hypothesis

(iii) NMR spectroscopy

12. Explain the sources and inventories of green house gases. 10

13. What is geoinformatics ? Describe advantages and limitations of geoinformatics in climate studies. 10

14. Write a note on application of geoinformatics on disaster management with suitable examples. 10