

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

Term-End Examination

December, 2024

**MEV-024 : CLIMATE CHANGE ASSESSMENT
TOOLS**

Time : 3 Hours

Maximum Marks : 100

Note : Attempt any **ten** questions. All questions carry equal marks.

1. Explain the approaches to climate change vulnerability research. 10
2. Explain the methodology for computing vulnerability index of a region to climate change. 10
3. Discuss the factors contributing to social vulnerability. 10
4. Describe the steps involved in crop modelling. 10

5. Write short notes on the following : 5+5=10
- (a) Raster Data Model
 - (b) Adaptive Capacity
6. Write short notes on the following : 5+5=10
- (a) Disaster Risk Reduction
 - (b) Deterministic Modelling
7. Explain the concept and principles of Early Warning Systems. 10
8. What are the advantages and disadvantages of geoinformatics application in climate change studies ? Explain. 10
9. Explain the spectral signatures of common earth surface features. 10
10. Write short notes on the following : 5+5=10
- (a) Risk Assessment
 - (b) Models of Electromagnetic Radiation
11. What are the applications of Life Cycle Assessment ? Explain in detail. 10

[3]

12. Describe the strategies to increase the carbon sequestration potential in soil. 10
13. Write short notes on the following : 5+5=10
- (a) Regional Climate Models
 - (b) General Circulation Models
14. What are the applications of crop simulation models ? Explain. 10

x x x x x x x