

**POST GRADUATE CERTIFICATE IN
CLIMATE CHANGE (PGCCC)
Term-End Examination
June, 2025**

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

Time : 3 Hours

Maximum Marks : 100

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

1. What is vulnerability to climate change ?
Discuss the approaches to vulnerability research. 10
2. What is adaptive capacity ? Discuss the methodology to compute climate change vulnerability index. 10

3. What is social vulnerability ? Discuss the factors that contribute to social vulnerability. 10
4. Explain the characteristics of crop simulation model. 10
5. What is Vector Data Model ? Explain the characteristics of vector data model. 10
6. Explain the advantages and limitations of geoinformatics in climate change studies. 10
7. What is disaster management ? Discuss the role of satellite system in disaster management. 10
8. What is remote sensing ? Explain the different types of remote sensing. 10
9. What is life cycle assessment ? Explain the role of life cycle assessment in circular economy. 10
10. Write short notes on the following : 5+5=10
 - (a) Regional climate models
 - (b) Stable carbon isotopes in soils

[3]

11. Explain the spectral signatures of common earth surface features. 10
12. Write short notes on the following : 5+5=10
- (a) Electromagnetic radiation
 - (b) Rayleigh and Mie scattering
13. Write short notes on the following : 5+5=10
- (a) Risk assessment
 - (b) Early warning system
14. Write short notes on the following : 5+5=10
- (a) Carbon sequestration
 - (b) Raster data analysis

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