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.

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

3.	What is	social	vulnerability	?	Discus	ss	the
	factors	that	contribute		to	so	cial
	vulnerability.						10

- 4. Explain the characteristics of crop simulation model.
- 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.
- 8. What is remote sensing? Explain the different types of remote sensing.
- What is life cycle assessment? Explain the role of life cycle assessment in circular economy.
- 10. Write short notes on the following: 5+5=10
 - (a) Regional climate models
 - (b) Stable carbon isotopes in soils

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- 11. Explain the spectral signatures of common earth surface features.
- 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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