

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

Term-End Examination

June, 2021

MEV-024 : CLIMATE CHANGE ASSESSMENT TOOLS

Time : 3 hours

Maximum Marks : 100

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

1. Give an account of the approaches to vulnerability research. 10
2. Discuss the methodology of computing vulnerability index of a region to climate change. 10
3. Explain the factors contributing to social vulnerability. 10
4. Describe the structure of crop simulation model. 10
5. Write short notes on the following : 5+5=10
 - (a) Deterministic Modelling
 - (b) Stochastic Model

- 6.** Give an account of the limitations of Crop Simulation Modelling. *10*
- 7.** Define GIS. Explain the components of GIS. *2+8=10*
- 8.** Write short notes on the following : *5+5=10*
- (a) Vector Data Model
 - (b) Vector Data Analysis
- 9.** Describe the stages of LCA study. *10*
- 10.** Write short notes on the following : *5+5=10*
- (a) Carbon Sequestration
 - (b) Stable Carbon Isotopes in Soils
- 11.** Give an account of different approaches for GHG inventories. *10*
- 12.** What is Remote Sensing ? Explain the remote sensing process. *2+8=10*
- 13.** What is Geoinformatics ? Give an account of the role, advantages and limitations of Geoinformatics for climate change studies. *2+4+2+2=10*
- 14.** Write short notes on the following : *5+5=10*
- (a) Spatial Data Infrastructure
 - (b) Risk Assessment