## POST GRADUATE CERTIFICATE IN CLIMATE CHANGE (P. G. C. C. C.)

## Term-End Examination December, 2020

## MEV-024 : CLIMATE CHANGE ASSESSMENT TOOLS

Time: 3 Hours Maximum Marks: 100

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

- 1. Describe the methods for analysing vulnerability.
- Explain the methodology for computing vulnerability index of a region to climate change.
- 3. Write short notes on the following: 5, 5
  - (a) Crop simulation model
  - (b) Contextual and outcome vulnerability
- 4. Explain the crop model uncertainty analysis. 10

Lot-I P. T. O.

5.	Explain the steps involved in crop modelling. 10
6.	Define geographic information system. Explain
	its components. 10
7.	What is life cycle assessment ? Explain its
	characteristics. 10
8.	Explain the applications of geoinformatics in
	climate change studies giving suitable
	examples. 10
9.	Discuss the strengths and limitations of life
	cycle assessment through a case study of crop
	production system. 10
10.	What is remote sensing ? Describe the
	processes involved in remote sensing. 10
11.	Briefly discuss the following: $3\frac{1}{2}$ , $3\frac{1}{2}$ , $3$
	(a) Kirchhoff's law
	(b) Geospatial data
	(c) GIS operations
12.	Write short notes on the following: $3\frac{1}{2}$ , $3\frac{1}{2}$ , $3$
	(a) Rayleigh scattering
	(b) Mie scattering
	(c) Non-selective scattering

- 13. Write short notes on the following: 5, 5
  - (a) Climate change adaptation
  - (b) Disaster risk reduction
- 14. Explain the concept and principles of early warning system.