

No. of Printed Pages : 3

MEV-024

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

Term-End Examination

June, 2023

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

Time : 3 Hours

Maximum Marks : 100

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

1. Define vulnerability. Discuss different approaches to climate change vulnerability research. 2+8
2. Explain the procedure to construct climate change vulnerability index. 10
3. Write short notes on the following : 5+5
 - (a) Physical vulnerability
 - (b) Social vulnerability

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4. Explain various methods of analyzing social vulnerability. 10
5. Write a note on the uncertainty and sensitivity analysis in climate change vulnerability assessment. 10
6. Write short notes on the following : 5+5
 - (a) Descriptive modelling
 - (b) Explanatory modelling
7. Discuss the steps in crop modelling. 10
8. Explain the limitations of crop model. 10
9. Write short notes on the following : 5+5
 - (a) Electromagnetic Radiation
 - (b) Types of remote sensing
10. Write short notes on the following : 5+5
 - (a) Vector Data model
 - (b) Raster based analysis
11. What is Life Cycle Assessment (LCA) ? Describe the stages of LCA study. 2+8

[3]

12. Discuss spectral signatures of earth surface features. 10

13. Write short notes on the following : 5+5

(a) GIS in Integrated Assessment Models

(b) Limitations of geoinformatics for climate change studies

14. Write short notes on the following :

$$4 \times 2\frac{1}{2} = 10$$

(a) Kirchhoff's law

(b) Planck's law

(c) Stefan-Boltzmann's law

(d) Wien's displacement law