

No. of Printed Pages : 3

MEV-024

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

Term-End Examination

June, 2026

**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 geoinformatics in climate
change studies. 10
2. Explain the strategies involved in disaster
risk reduction. 10
3. What is early warning system ? Explain the
principles of early warning system. 2+8

4. Explain the different types of remote sensing. 10
5. What is Lifecycle Assessment ? Explain the steps involved in lifecycle assessment. 2+8
6. Write short notes on the following : 5+5
 - (a) Vector data analysis
 - (b) Spatial data infrastructure
7. Explain the carbon isotopic fractionation during photosynthesis. 10
8. What is carbon sequestration ? Explain the measures to increase soil carbon sequestration. 2+8
9. Write short notes on the following : 5+5
 - (a) Electromagnetic radiation
 - (b) Limitations of remote sensing
10. What is greenhouse gases inventory ? Explain the different approaches for greenhouse gases inventories. 2+8

[3]

11. Explain the different approaches to climate change vulnerability research. 10
12. What is crop simulation model ? Explain the structure of crop simulation model. 2+8
13. Explain the principles of climate change adaptation. 10
14. What is uncertainty in climate change analysis ? Explain the crop model uncertainty analysis. 2+8

× × × × ×