

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

Term-End Examination

December, 2024

MEV-021 : INTRODUCTION TO CLIMATE CHANGE

Time : 3 Hours

Maximum Marks : 100

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

1. What are greenhouse gases ? Explain the trends and concentration of greenhouse gases in the atmosphere since industrial revolution. 10
2. What is climate system ? Explain the different components of climate system. 10
3. What is climate change ? Explain the natural causes of climate change. 10

4. What is climate feedback ? Explain the water vapour feedback and lapse rate feedback. 10
5. Write short notes on the following : 5+5=10
 - (a) Dendrochronology
 - (b) Speleothems
6. Explain the climatic conditions that prevailed during pre-cambrian era. 10
7. Explain the causes of urban flooding. 10
8. Describe how changing landuse affects climate change. 10
9. What are climate models ? Explain the different types of climate models. 10
10. Write short notes on the following : 5+5=10
 - (a) Deforestation
 - (b) Desertification
11. Explain the key features of National Action Plan on climate change. 10
12. Write short notes on the following : 5+5=10
 - (a) Rainwater harvesting
 - (b) Drought

13. Write short notes on the following : 5+5=10

(a) Kyoto Protocol

(b) IPCC

14. Discuss the impacts of climate change on
biodiversity. 10

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