

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

Term-End Examination

December, 2022

**MEV-023 : MITIGATION AND ADAPTATION TO
CLIMATE CHANGE**

Time : 3 Hours

Maximum Marks : 100

Note : (i) Answer any **ten** questions.

(ii) All questions carry equal marks.

1. What are the two aspects that are considered as pillars of climate change ? How are they different from each other ? 10
2. Describe climate resilience strategies for sustainable development. 10

3. Explain the role of International Organizations in climate change mitigation. 10
4. Explain the following : 5+5
 - (a) The characteristics of adaptive capacity
 - (b) Community based and ecosystem based adaptations
5. Describe strategies for land degradation management and management of organic matter in soil. 10
6. Describe the afforestation strategies in degraded soil and strategies to increase carbon sequestration. 10
7. What is climate smart agriculture ? Explain climate resilient pathways. 10
8. What is carbon sequestration ? Differentiate between oceanic and geological carbon sequestration. 10
9. Describe the need and drives of diversification in energy supply. 10

10. Explain the reasons for adoption of biofuels as a sustainable strategies to replace the fossil fuels. 10
11. Describe the potential of industrial sector for reducing GHG emissions. 10
12. Explain the design strategies for automative energy efficiency. Describe various categories of efficiency technology to reduce GHG emissions in vehicles. 10
13. Discuss public health perspectives on climate change. Describe measures to strengthen institutions for climate change. 10
14. Explain the principles of energy efficient budding designs with suitable examples. 10
15. What is waste hierarchy ? Explain various goals of waste hierarchy in climate change mitigation. 10