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MEV-023

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

Term-End Examination

June, 2024

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

Time : 3 Hours

Maximum Marks : 100

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

1. What is UNFCCC ? Explain its objectives and convention bodies in detail. 5+5=10
2. Define mitigation and adaptation in context of climate change. Why these two are considered as pillars of action against climate change. 5+5=10
3. What is adaptive capacity ? Explain community based adaptation and ecosystem based adaptation with examples. 5+5=10

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4. What is deforestation ? How can reducing deforestation and degradation mitigate climate change ? 4+6=10

5. Describe the impacts of climate change on agriculture. Elaborate climate adaptation and mitigation measures in agriculture. 5+5=10

6. Discuss the applications of Carbon Capture and Storage (CCS) technology. Identify advantages and limitation of CCS technology. 5+5=10

7. Discuss renewable energy technologies and factors driving the diversification in energy supply. 10

8. What are biofuels ? Describe the categories of biofuels along with their potential to use as sustainable fuels. 2+8=10

9. Define resilience. Discuss the need and potential of climate resilient industry. 2+8=10

10. Explain global carbon cycle. Discuss importance of terrestrial and geological carbon sequestration in context of climate change. 3+7=10

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11. Describe challenges and actions needed in public health services to address climate change. 10
12. What are green buildings ? Explain its main features. 4+6=10
13. Describe waste management strategies for climate change mitigation and green house gas reduction. 10
14. What is emission intensity of describe various fuel efficiency technologies. 4+6=10

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