

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

Term-End Examination

June, 2021

MEV-021 : INTRODUCTION TO CLIMATE CHANGE

Time : 3 hours

Maximum Marks : 100

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

1. Write short notes on the following : *5+5=10*
 - (a) Composition of the atmosphere
 - (b) Structure of the atmosphere

2. Define the term 'Greenhouse Effect'. Explain it with suitable diagram. Add a note on the important greenhouse gases. *2+3+5=10*

3. What are the 'Natural Drivers' of climate change ? Briefly explain how Tectonic processes influence global climate. *4+6=10*

4. Write short notes on any **two** of the following : $5+5=10$
- (a) Water vapour feedback
 - (b) Lapse rate feedback
 - (c) Radiative forcing
5. Explain the significance of instrumental records in the measurement of climate change. 10
6. Discuss the role of urbanisation in the microclimate of a region. 10
7. Write an essay on the trends in sea level rise since 19th century. 10
8. Explain the Hydrological cycle. 10
9. What are the major ecosystems which are at greater risk due to climate change ? Explain the impacts of climate change on Himalayan ecosystem. 4+6=10
10. Explain any **two** of the following terms : 5+5=10
- (a) Extreme Events
 - (b) Timberline
 - (c) Snowline

- 11.** Briefly discuss about Kyoto Mechanism and shortcomings of Kyoto Protocol. $5+5=10$
- 12.** What are the major policy initiatives of the Government of India towards renewable energy sources ? Explain any one of the initiatives. $4+6=10$
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