

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

Term-End Examination

December, 2020

MEV-021 : INTRODUCTION TO CLIMATE CHANGE

Time : 3 Hours

Maximum Marks : 100

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

(ii) All questions carry equal marks.

1. Define any **four** of the following : $2\frac{1}{2} \times 4 = 10$
 - (a) Global warming potential
 - (b) Green House Gases
 - (c) Solar constant
 - (d) Troposphere
 - (e) Climate change

2. Briefly explain the concept of 'Green House Effect'. 10

3. What is Radiative Forcing ? Explain. 10
4. Write short notes on any *two* of the following :
5+5
 - (a) Climate feedbacks
 - (b) Pleistocene
 - (c) Geological records
 - (d) Climate of Precambrian Era
5. What is Proxy Climate Records ? Discuss palynology as a proxy record. 5+5
6. Explain the different Representative Concentration Pathways (RCPs) scenarios. 10
7. Discuss the sea level rise trends across the world during the last few decades. 10
8. What are the major Global Monsoon System distributed across the globe ? Briefly explain. 10
9. Write short notes on any *two* of the following :
5+5
 - (a) Snow line
 - (b) Methane Clathrates
 - (c) Aerosols
 - (d) Ecosystems with high species loss

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10. What are the major causes and impacts of melting of Himalayan Glaciers ? 10
11. Write brief essay on any *one* of the following : 10
- (a) Rio Declaration, 1992
 - (b) The Kyoto Mechanisms
 - (c) India's National Action Plan on climate change
12. Briefly explain the role of Self Help Group to improve socio-economic vulnerability of a region. 10