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MEVE-011

**MASTER OF SCIENCE
(ENVIRONMENTAL SCIENCE)
(MSCENV)**

Term-End Examination

June, 2022

MEVE-011 : GLOBAL CLIMATE CHANGE

Time : 3 Hours

Maximum Marks : 100

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

1. Explain the global energy budget with a suitable diagram. 10
2. Write short notes on the following : 5+5
 - (a) Atmospheric Window
 - (b) Solar Variations
3. Write short notes on the following : 5+5
 - (a) El Nino
 - (b) La Nina

P. T. O.

4. Write short notes on the following : 5+5
 - (a) Urban Heat Island Effect
 - (b) Carbon Sequestration

5. Write short notes on the following : 5+5
 - (a) Climate during Precambrian
 - (b) Climate during Pleistocene

6. What are Representative Concentration Pathways ? Explain the Representative Concentration Pathways. 2+8

7. Write short notes on the following : 5+5
 - (a) Extreme heat
 - (b) Wildfires

8. Discuss the strategies to reduce greenhouse gas emissions from agriculture. 10

9. Explain the climate change impacts on biological properties of ocean. 10

10. Explain the causes and impacts of glacier melting. 10

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11. Write short notes on the following : 5+5
- (a) Community-based adaptation
 - (b) Ecosystem-based adaptation
12. Explain the emerging perceptions for climate education. 10
13. Discuss the salient features of Paris agreement on climate change. 10
14. Write short notes on the following : 5+5
- (a) Ocean acidification
 - (b) Timberline