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**MEVE-011**

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

**Term-End Examination**

**June, 2023**

**MEVE-011 : GLOBAL CLIMATE CHANGE**

*Time : 3 Hours*

*Maximum Marks : 100*

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

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1. Write short notes on the following : 5+5
  - (a) Greenhouse gases
  - (b) Structure of atmosphere
  
2. What is radiative forcing ? Discuss the concept of radiation balance. 2+8

**P. T. O.**

3. Explain Milankovitch oscillations with suitable diagrams. 10
4. Explain the role of urbanization on climate change. 10
5. Describe sources of palaeoclimate information. 10
6. What is an extreme weather event ? Discuss the consequences of extreme weather events. 2+8
7. What is a climate model ? Classify the different types of climate models. 2+8
8. Describe climate change mitigation strategies in agriculture. 10
9. Explain response of ocean ecosystem to climate change. 10
10. Write short notes on the following : 5+5
  - (a) Glacier formation
  - (b) Glacial lake outburst floods

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11. Discuss impacts of climate change on biodiversity. 10
12. Explain characteristics and determinants of adaptive capacity. 10
13. Write short notes on the following : 5+5
  - (a) Carbon capture and sequestration
  - (b) Climate change education
14. Discuss the National Action Plan on climate change. 10