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**MEVE–011**

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

**Term-End Examination**

**June, 2024**

**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. What is greenhouse effect ? Explain the global energy budget with a suitable diagram. 10
2. What are greenhouse gases ? Explain the trends in greenhouse gas composition in the atmosphere since industrial revolution. 10
3. Describe the natural drivers of climate change.

10

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4. Explain the greenhouse gas emissions from agricultural activity. Suggest suitable strategies to minimize the greenhouse gases emissions from agriculture sector. 10
5. What are the sources of palaeoclimatic data ? Explain in detail. 10
6. What is urbanization ? Explain the impacts of urbanization on environment. 10
7. Explain the processes and drivers of desertification. 10
8. What are the impacts of climate change on physical and chemical properties of ocean ? Explain. 10
9. Explain the Representative Concentration Pathways. 10
10. Write short notes on the following : 5+5
  - (a) Drought
  - (b) Extreme precipitation

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11. Describe the salient features of National Action Plan on climate change. 10
12. What are the causes and impacts of glacier melting ? Explain. 10
13. Discuss the need for mainstreaming adaptation strategies. 10
14. What are the salient features of Paris agreement on climate change ? Explain. 10