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MEVE-011

M. SC. (ENVIRONMENTAL SCIENCE)

(MSCENV)

Term-End Examination

December, 2025

MEVE-011 : GLOBAL CLIMATE CHANGE

Time : 3 Hours

Maximum Marks : 100

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

(ii) All questions carry equal marks.

1. Explain the salient features of Paris Agreement on Climate Change. 10

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2. Explain the climate change impacts on agriculture. 10
3. Write short notes on the following : 5+5
 - (a) Glacial Lake Outburst Floods
 - (b) Community-based Adaptation
4. Explain how state governments in India address the issue of climate change. 10
5. Write short notes on the following : 5+5
 - (a) Biofuels
 - (b) Carbon neutrality
6. What are green buildings ? Explain the principles, advantages and limitations of green buildings. 10
7. What is palaeoclimatic data ? Explain the different sources of palaeoclimatic data. 10

8. Write short notes on the following : 5+5
- (a) Wild fires
 - (b) Urban floods
9. What are climate models ? Explain the characteristic features of different types of climate models. 10
10. Explain the effect of climate change on chemical properties of ocean. 10
11. Explain how industrialization and landuse change are responsible for causing climate change. 10
12. Write short notes on the following : 5+5
- (a) Carbon sequestration
 - (b) Volcanic eruptions and climate change

13. Write short notes on the following : 5+5

(a) Milankovitch oscillations

(b) Global warming potential

14. Write short notes on the following : 5+5

(a) Vertical structure of atmosphere

(b) Greenhouse effect

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