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MEVE-011

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

Term-End Examination

December, 2023

MEVE-011 : GLOBAL CLIMATE CHANGE

Time : 3 Hours

Maximum Marks : 100

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

1. Explain the role of deforestation and desertification on climate change. 10
2. Discuss the climate forcing mechanisms. 10
3. Explain the role of volcanic eruptions and tectonic plates movement on climate change. 10
4. Write short notes on the following : 5+5
 - (a) Greenhouse gas emissions from agriculture

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- (b) Livestock management practices to mitigate climate change.
5. Discuss climate change during the quaternary period. 10
6. Explain the significance of instrumental records and proxy climate indicators in climate change studies. 10
7. What is greenhouse gas emission scenario ? Explain the Representative Concentration Pathways (RCPs). 2+8
8. Discuss the effects of climate change on agriculture. 10
9. Write short notes on the following : 5+5
- (a) Ocean acidification
- (b) Coral bleaching
10. Discuss the impacts of glacier melting on rivers and water availability. 10
11. Describe the direct and indirect effects of climate change on human health. 10

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12. Explain the climate change adaptation strategies. 10
13. Write short notes on the following : 5+5
- (a) Sustainable buildings
 - (b) Bioenergy
14. Discuss the international concerns for capacity building and climate change education. 10