

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

Term-End Examination

December, 2022

MEVE-011 : GLOBAL CLIMATE CHANGE

Time : 3 hours

Maximum Marks : 100

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

1. Write short notes on the following : 5+5=10
 - (a) Greenhouse Effect
 - (b) Climate Change and Climate Variability

2. Write short notes on the following : 5+5=10
 - (a) Greenhouse Gas Emissions from Wetlands
 - (b) Greenhouse Gas Emissions from Agriculture

3. Write short notes on the following : 5+5=10
 - (a) Sunspot Activity
 - (b) Volcanic Eruptions

4. Explain the processes and drivers of desertification. 10

5. Write short notes on the following : 5+5=10
 - (a) Speleothems
 - (b) Dendrochronology

- 6.** Discuss the causes and impacts of deforestation. *10*
- 7.** Write short notes on the following : *5+5=10*
- (a) Climate Uncertainties
 - (b) Hydrological Cycle
- 8.** Write short notes on the following : *5+5=10*
- (a) Extreme Weather Events
 - (b) Hurricanes
- 9.** Write short notes on the following : *5+5=10*
- (a) Impacts of Agriculture on Environment
 - (b) Green Building
- 10.** Describe the vulnerability and migration pattern of marine organisms to climate change. *10*
- 11.** Write short notes on the following : *5+5=10*
- (a) Glacial Lake Outburst Floods
 - (b) Impacts of Climate Change on Biodiversity
- 12.** Explain the need to stabilize greenhouse gas concentration in the atmosphere. *10*
- 13.** What is capacity building ? Explain capacity building from the perspective of UNFCCC. *2+8=10*
- 14.** Discuss the salient features of National Action Plan on Climate Change (NAPCC). *10*
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