

**POST GRADUATE CERTIFICATE IN
CLIMATE CHANGE (PGCCC)**

Term-End Examination

June, 2021

MEV-022 : IMPACTS OF CLIMATE CHANGE

Time : 3 hours

Maximum Marks : 100

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

1. "Agriculture sector acts as a source of greenhouse gases." Justify the statement. Describe various mitigation strategies in agriculture to combat climate change. *5+5=10*
2. What is Forest Biodiversity ? How does climate change affect forest biodiversity ? *5+5=10*
3. "Livestock both contributes to, as well as is affected by climate change globally." Justify the statement. *5+5=10*
4. Describe how climate change affects oceanic, coastal and freshwater fisheries. *10*

5. What is Soil Organic Matter ? Describe the effects of climate change on soil organic matter. *3+7=10*
6. Describe the effects of climate change on the physical, chemical and biological properties of oceans. *10*
7. What are Wetlands ? Describe various ecosystem services provided by the wetlands. Give an overview of wetlands and climate change interactions. *2+3+5=10*
8. Why are mountains considered to be among the most severely impacted ecosystems as a result of climate change ? *10*
9. Write short notes on the following : *2×5=10*
- (a) Impacts of climate change on water resources
 - (b) Energy and climate change
10. Describe the role of biodiversity in climate change mitigation. Explain the approaches to reduce the impacts of climate change on biodiversity. *5+5=10*

- 11.** What is Climate Resilient Infrastructure ? Describe the impacts of climate change on urbanization. *5+5=10*
- 12.** What are the threats to low lying coastal zones due to climate change ? Describe the challenges to coastal ecosystem. *5+5=10*
- 13.** Describe the adverse impacts of climate change on livelihood in rural areas. *10*
- 14.** Give impacts of climate change on any *two* of the following : *5+5=10*
- (a) Air and water quality
 - (b) Allergens/Air pollutants
 - (c) Spread of disease-causing organisms
-