

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

Term-End Examination

December, 2021

MEV-022 : IMPACTS OF CLIMATE CHANGE

Time : 3 hours

Maximum Marks : 100

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

1. How does climate change affect agriculture ? Describe various adaptation strategies in agriculture to combat climate change. *5+5=10*

2. What is global warming ? Describe direct and indirect effects of global warming on the forest ecosystem. *5+5=10*

3. Describe the importance of livestock sector. Give ways to reduce greenhouse gas emitted by livestock. *5+5=10*

4. How does climate change contribute towards fish diseases, coral bleaching and calcification ? 10

5. What are greenhouse gases ? Describe the role of soil in emitting greenhouse gases. 2+8=10

6. What are the effects of sea level rise on biological diversity ? Describe the migration pattern of fishes because of changing climate. 3+7=10

7. Describe the effects of climate change on wetlands. List down various adaptation strategies in wetlands against climate change. 5+5=10

8. How is climate change responsible in crop production and livelihood support system in Hill ecosystem ? 5+5=10

9. What is soil erosion ? Describe the effects of climate change on soil hydrology. 5+5=10

10. Give an overview of energy resources. How does climate change affect the renewable energy resources ? 5+5=10

11. Write short notes on the following : 5+5=10
 - (a) Biodiversity and climate change interactions
 - (b) Impact of climate change on transportation infrastructure

- 12.** Describe various challenges to the coastal ecosystem due to human induced global warming. *10*
- 13.** How is climate change causing forced migration ? What are the impacts of extreme weather events on the spread of diseases ? *5+5=10*
- 14.** Describe climate change induced health care problems. *10*
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