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MEV-022

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

Term-End Examination

June, 2020

MEV-022 : IMPACTS OF CLIMATE CHANGE

Time : 3 Hours

Maximum Marks : 100

Note : (i) Answer any ten questions.

(ii) All questions carry equal marks.

1. What are the impacts of enhanced CO₂ on crop growth, crop quality and on weeds and pests ?
How green house emissions from agriculture can be mitigated ?
5+5
2. Describe the livestock sector's contribution to global food, nutritional and livelihood securities. What are the impacts of global warming on livestock ?
5+5

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3. What are the various physico-chemical factors affecting coastal system ? How does climate change impact food web biomass ? 5+5
4. What are wetlands ? Describe their significance. Enlist the priorities on wetland for enhancing climate action and adaptation. 2+2+6
5. What are the impacts of glacier melting ? Discuss the impacts of climate change on mountainous livelihood support system. 5+5
6. Write short notes on any *two* of the following :
- 5 each
- (i) Greenhouse gases emission from soil
 - (ii) Ocean acidification and coral bleaching
 - (iii) Effect of ocean warming on biological diversity
7. What are the impacts of rainfall extremes on water resources ? Describe various traditional and modern harvesting systems. 5+5

8. Explain different types of energy resources, their potential and constraints in terms of climate change. What is energy efficiency ? 8+2
9. What is biodiversity and why is it loss a concern ? Explain the role of biodiversity in climate change mitigation and adaptation.

2+3+5

10. Write short notes on any *four* of the following :

2½ each

- (i) Impact of climate change on transport infrastructure
- (ii) Impact of climate change on buildings
- (iii) Global climate change, temperature and precipitation
- (iv) Forest as a sink for carbon
- (v) REDD and REDD+

11. What is urbanization ? Describe the impacts of climate change on urbanization. 2+8

12. Describe the coastal ecosystem from the perspective of coastal economy and livelihood security. Describe various challenges to coastal ecosystem due to global warming. 5+5
13. What are livelihood and livelihood assets ? Describe forced migration and changing livelihood pattern due to climate change. 5+5
14. What are the likely impact of climate change on health. Suggest actions for national and local policymakers for mitigating health impacts of climate change. 5+5