

**Ph.D. ENVIRONMENTAL SCIENCE
(PHDEV)**

Term-End Examination

December, 2018

REVE-006 : CLIMATE CHANGE

Time : 3 hours

Maximum Marks : 100

Note : (i) *Answer any ten of the following questions.*
(ii) *All questions carry equal marks.*

1. Write short notes on the following : **10x10=100**
 - (a) Global Energy Budget
 - (b) Radiative Forcing

2. What do you mean by climate feedbacks ?
Explain the various climate feedback mechanisms.

3. Explain the concept of climate resilience. Discuss the relevance of climate resilience in climate change mitigation.

4. Write short notes on the following :
 - (a) Climate Variability
 - (b) Extreme Events

5. Explain the need for climate change adaptation and elaborate the synergies between mitigation and adaptation.

6. Discuss the impacts of increase in atmospheric temperature on agricultural production.
 7. Discuss the effects of climate change on biodiversity.
 8. Discuss the role of Geoinformatics in climate change studies.
 9. Define mitigation and adaptation. Discuss the various mitigation and adaptation strategies in agriculture.
 10. Explain the impacts of climate change on water resources.
 11. Discuss the provisions of Paris Agreement on climate change.
 12. Explain how SDG 13 on climate change is related to other Sustainable Development Goals.
 13. Discuss the significance of gender mainstreaming in climate change mitigation and adaptation approach.
 14. Write short notes on the following :
 - (a) UNFCCC
 - (b) IPCC
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