

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

Term-End Examination

December, 2022

REVE-006 : CLIMATE CHANGE

Time : 3 hours

Maximum Marks : 100

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

1. Write short notes on the following :
 - (a) Greenhouse Effect
 - (b) Climate Change
2. Write about the significance of Stratospheric Ozone. Discuss the mechanism of Stratospheric Ozone depletion.
3. Explain the carbon dioxide fertilization effect. Why do C_3 plants benefit from increase in atmospheric carbon dioxide concentration ?
4. Write short notes on the following :
 - (a) Structure of Atmosphere
 - (b) Climate System

5. Explain the various carbon pools and processes involved in soil carbon sequestration.
 6. What are the unique features of soil ecosystem ? Discuss the major impacts of climate change on soil ecosystem.
 7. Explain the impacts of climate change on wetlands.
 8. What do you understand by the term carbon capture and storage ? Explain the processes involved in carbon capture and storage.
 9. Explain the impacts of climate change on mountain and hill ecosystems.
 10. Explain the drivers of climate change policy.
 11. Discuss the impacts of climate change on human health.
 12. Discuss the various missions under National Action Plan on Climate Change.
 13. Write short notes on the following :
 - (a) Carbon Credits
 - (b) Carbon Trading
 14. Explain the philosophy of sustainable development engrained in Sustainable Development Goals.
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