

M.Sc. (Sem.-III) Examination  
502 Climate Change  
May-2017

Time : 3 Hours]

[Max. Marks : 70

**Time: 3 Hours.****Maximum Marks: 70**

- Q 1 A) Write a note on the structure and steps involved in doing mitigation assessment. (07)  
OR
- C1 A) What do you understand by Barriers to Mitigation and explain **any one** sectoral barrier in detail. (07)
- C 1B) What are the issues related to biodiversity in Climate change mitigation. (07)  
OR
- Q1B) Define Carbon Sink and Give detailed account of land based carbon sinks. (07)
- Q2 A) Define emission standards. Add a note on vehicle emission performance standards. (07)  
OR
- Q2 A) What is new and clean energy technology? Discuss the benefits with an example. (07)
- Q 2 B) Explain the mechanism of Cap and Trade with appropriate example. (07)  
OR
- Q 2 B) Explain sustainable development and climate change mitigation in context to emission trends (07)
- Q 3 A) Define and describe (**ANY ONE**) of the following in Short. (07)  
1. Carbon Accounting  
2. Emission Trading
- Q 3 B) Define and describe (**ANY ONE**) of the following in Short. (07)  
1. Voluntary Carbon markets  
2. Structure of International Carbon Market
- Q 4 A) Explain working of Biomass energy generation and barriers related to the same. (07)  
OR
- Q 4 A) Explain Hydropower along with its historical and current technologies. (07)
- Q 4B) what is alternative energy technology ? Explain with different technology options. (07)
- Q4 B) Explain Technology Transfer using appropriate case example. (07)
- Q 5 Describe in few lines for any SEVEN of the following: (2marks each x7=14)
- 1) Define Solar Irradiance
  - 2) Green Roofs
  - 3) Carbon market
  - 4) What is S.I. Unit of Heat and Energy?
  - 5) Geothermal energy
  - 6) State the units of CDM, JI and IET
  - 7) What are the heat transfer methods?
  - 8) What is Electron-Hole Pair (or EHP)?
  - 9) What is humus ?