

MSc Sem.-2 Examination

407

Climate Change

May-2025

Time : 2-30 Hours]

[Max. Marks : 70

Instructions: All Questions carry equal marks
Attempt all Questions

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|-------|--|----|
| Q I | Discuss impact of climate change on water cycle. | 14 |
| OR | | |
| Q I | A. How has climate change led to water crisis in the world? | 7 |
| | B. Discuss the effect of climate change on agriculture in the Ganga plains. | 7 |
| Q II | Discuss how agriculture is impacted by climate change with suitable examples. | 14 |
| OR | | |
| Q II | A. Why are developing nations more impacted by climate change? | 7 |
| | B. How is the rural local community impacted by climate change and its impact on fishing cycles, livestock, and agriculture? | 7 |
| Q III | Is biodiversity impacted by climate change? How? | 14 |
| OR | | |
| Q III | A. What is carbon sequestration? What is the role of forests in this? | 7 |
| | B. How are mangroves affected due to the changing climate? | 7 |
| Q IV | Discuss fuel Production from Forest Biomass | 14 |
| OR | | |
| Q IV | A. Discuss effects of Climate Change on nuclear and hydropower plants | 7 |
| | B. Discuss Climate Change and Energy crisis with examples | 7 |
| Q V | Attempt any 7 out of 12 MCQs/Short question (One- or Two-line answer)/ Fill in the blanks/True or False etc. | 14 |
| 1 | _____ is an adaptive measure to control water crisis. | |
| | A) water pricing | |
| | B) sea level rise | |
| | C) tube wells | |
| | D) deforestation | |
| 2 | Which of the following areas would you immediately associate with water scarcity? | |
| | A) Rajasthan | |
| | B) Ganga plains | |
| | C) Hills of north eastern India. | |
| | D) none of these | |

(P.T.O)

- 3 Full form of CRWU.
- A) climate related water use
 - B) climate ready water use
 - C) climate ready waste use
 - D) climate ready water utilities
- 4 Jute and cotton are examples of _____ crops.
- A) cash crop
 - B) food crop
 - C) subsistence crop
 - D) none of these
- 5 Increase in ocean temperature due to global warming affects the _____.
- A) fisheries
 - B) agriculture
 - C) green roofs
 - D) livestock
- 6 _____ is used as an adaptive measure for agriculture.
- A) agro forestry
 - B) deforestation
 - C) shifting cultivation
 - D) urbanisation
- 7 _____ is the commercial cutting of forests.
- A) afforestation
 - B) lumbering
 - C) agro forestry
 - D) slash and burn agriculture
- 8 What is the role of forests in maintaining water quality?
- A) no effect
 - B) purifies and filters
 - C) reduces quality
 - D) contaminates it
- 9 How can deforestation be mitigated?
- A) Planting more trees
 - B) Reforestation
 - C) Sustainable logging practice
 - D) All of these
- 10 Secondary fuel
- 11 Solar PV
- 12 Wind Generation farms
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