

M.Sc Semester-2 Examination
Climate Change and Impact Management
Paper CCIM - 407

Time: 2.30 Hours**Total Marks: 70**

Instructions: All Questions carry equal marks
 Attempt all Questions

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| Q I | Describe the Impacts of Climate Change on Water Cycle and Water Demand | 14 |
| OR | | |
| Q I | A. Explain Climate Change impacts on water Supply | 7 |
| | B. Explain Climate Change Impacts on Water Quality | 7 |
| Q II | Describe the impacts of climate change on crops and soil quality | 14 |
| OR | | |
| Q II | A. Describe the indirect impacts of climate change on livestock | 7 |
| | B. Describe the impacts of climate change on fisheries and fishing cycles | 7 |
| QIII | Describe the tree responses to temperature, water availability, increased CO ₂ concentration and carbon storage (Eco Physiological Responses) | 14 |
| OR | | |
| Q III | A. Describe the effect of climate change on biodiversity and adaptation mechanism | 7 |
| | B. Describe the impacts of climate change on forest dispersion and shifting | 7 |
| Q IV | A. How the Electricity is being generated? Describe the Electricity demand and drivers | 7 |
| | B. Describe key Climate Change Impacts and Adaptation on Forest biomass | 7 |
| OR | | |
| Q IV | A. What is Climate Change? Describe the responsible sectors for the GHG emissions | 7 |
| | B. Describe key Climate Change Impacts and Adaptation on Solar Photovoltaic Power | 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. | 2 |
| 1 | Which gas is primarily responsible for greenhouse gas (GHG) emissions globally? | |
| | a. Methane (CH ₄) | |
| | b. Carbon dioxide (CO ₂) | |
| | c. Nitrous oxide (N ₂ O) | |
| | d. Water vapor (H ₂ O) | |

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- 2 From the list, Which angle is measured clockwise from North to install Photovoltaic cell?
 - a. Elevation Angle
 - b. Zenith Angle
 - c. Azimuth Angle
 - d. North Angle
- 3 Which of the following is a primary benefit of utilizing forest biomass for fuel production?
 - a. Reduced greenhouse gas emissions
 - b. Increased deforestation
 - c. Higher dependence on fossil fuels
 - d. Decreased biodiversity
- 4 Water quality
- 5 Water cycle
- 6 Healthy water sheds
- 7 Which greenhouse gases will affect marine ecosystem?
- 8 Which gender will have heat related infertility among poultry broilers?
- 9 Mention any two central government policies for crop loss
- 10 What is biodiversity?
- 11 Mention tree response to excess carbon storage
- 12 Name any two hotspots of India

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