

M.Sc. Sem.-1 Examination

403

Climate Change

January-2024

Time : 2-30 Hours]

[Max. Marks : 70

Instructions: All Questions carry equal marks
Attempt all Questions

- Q I List the greenhouse gases and its sources in detail 14
- OR
- Q I A. Enhanced Greenhouse effect 7
B. Science of 1.5 degree Celsius 7
- Q II What is aerosol and describe the types of aerosols? 14
- OR
- Q II A. Explain Radiative forcing by tropospheric ozone. 7
B. Explain direct and indirect effect of aerosols. 7
- Q III Explain the role of chemical and pharmaceutical industry in CFC production 14
- OR
- Q III A. Explain the role of information technology in Global Warming 7
B. Describe the role of NGO's related to Global Warming 7
- Q IV Give an account on (i) NOAA (ii) photoacoustic spectroscopy 14
- OR
- Q IV A. Write a note on impact on climate change due to anaesthetic gases and aerosols 7
B. Explain how to measure Global warming potential along with its significance 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. 12
- 1 Atmospheric aerosol particles are typically between _____ particles.
- 0.02 & 0.03 micrometer
 - 0.01 & 10 micrometer
 - 0.01 & 0.09 micrometer
 - 0.02 & 10 micrometer
 - None of these
- 2 What type of colloid is an aerosol?
- Solid in gas
 - Gas in solid or fluid

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- c) Fluid in gas
- d) Fluid or solid in gas

- 3 The major source of aerosols includes _____.
- a) Industrial emissions, Tropospheric pollutants
 - b) Industrial emissions, Volcanic eruption
 - c) Industrial emissions, Biomass burning.
 - d) All of the above
 - e) None of the above
- 4 Which human activities are responsible for increase of Carbon dioxide in the atmosphere?
- 5 List five greenhouse gases
- 6 Explain Tipping Point
- 7 Mention the role of banking and finance in global warming
- 8 Give the full form of UNEP
- 9 How education can help to overcome global warming?
- 10 Define: GHGs and state its examples
- 11 State two difference between past and future emissions.
- 12 Write the fullform of GC-MS, ADS

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