

MSc Sem.-1 Examination

403

Climate Change

February-2025

Time : 2-30 Hours]

[Max. Marks : 70

Instructions: All Questions carry equal marks
Attempt all Questions

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|-------|--|----|
| Q I | Explain the greenhouse effect in the atmosphere with a suitable diagram | 14 |
| OR | | |
| Q I | What do you understand by global warming? Highlight the causes. | 7 |
| | What are coral reefs? How is it negatively impacted by global warming? | 7 |
| Q II | What are aerosols? Give details about sources of aerosols | 14 |
| OR | | |
| Q II | A. Describe the types of aerosols in detail | 7 |
| | B. Explain Direct and indirect effects of aerosols | 7 |
| Q III | Explain the role of NGO's and start-ups in Global Warming | 14 |
| OR | | |
| Q III | Describe the role of chemical industries in Global Warming | 7 |
| | Describe the role of iron and steel industry in Global Warming | 7 |
| Q IV | Discuss Measurements and procedures to assess global warming | 14 |
| OR | | |
| Q IV | Write a note on mass spectrophotometer | 7 |
| | Discuss Global warming Potential (GWP) | 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 cattle guilty for global warming? | |
| 2 | What is permafrost? | |
| 3 | Where is the Savannah grassland? | |
| 4 | Explain Absorption | |
| 5 | Define Scattering | |
| 6 | Tropospheric ozone is a greenhouse gas. True or false | |
| 7 | Which among the following is/are ODS? | |
| | a) CEC | |
| | b) HCFC | |
| | c) Both | |
| | d) None | |
| 8 | What does a black liquor consist of? | |
| | a) Wood chips | |
| | b) BOD | |

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- c) COD
 - d) Hemicellulose
- 9 Which among the following seeds can be used to make sustainable jewellery?
- a) abrus precatorius
 - b) agave Americana
 - c) alstonia scholaris
 - d) all
- 10 Carbon monoxide is a greenhouse gas. True or False
- 11 Global warming potential of Ammonia is zero. True or false
- 12 Using a bottle of desflurane has the same global warming effect as burning 440 kg of coal. True or false
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