b) Effect of climate change on melting of polar ice and glaciers.

Unit - III

5. What do you understand by carbon farming? Add a note on the advantages of carbon farming. 7+7=14

6. Write short notes on : 7x2=14

(a) Soil carbon sequestration

(b) Carbon management through biotic sequestration.

Unit - IV

7. Discuss in detail the projected impact of climate change in India. Add a short note on India's response to climate change. 10+4=14

8. Write short notes on : 7x2=14

a) National action-plan on climate change

b) Impact of climate change on water resources

Unit - V

9. Write in detail about the Kyoto protocol. Add a short note on Paris agreement. 10+4=14

10. Write short notes on : 7x2=14

a) UNFCCC

b) IPCC and its role

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PG Even Semester Examination, May 2025

ECOLOGY & ENVIRONMENTAL SCIENCE

2nd Semester

Course No. : ECGCC - 553 (O)

(Climate Change Impact and Mitigation)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

(Answer any five questions, selecting one from each unit)

Unit - I

1. What is the difference between climate and weather? Discuss any 2 techniques of measurement of climate change in detail. 4+10=14

2. Write short notes on : 7x2=14

a) Global warming and greenhouse effect

b) Carbon cycle

Unit - II

3. Discuss the socio-economic and public health consequences of climate change. 7+7=14

4. Write short notes on : 7x2=14

a) Effects of climate change on agroecosystems