4. Write short notes on : 7x2=14
   a) Public health consequences of climate change
   b) Effect of climate change on forest.

Unit - III

5. What is soil carbon sequestration? How does soil carbon sequestration help in improving soil health? Add a note on the role of wetlands in soil carbon sequestration. 2+5+7=14

6. Write short notes on : 7x2=14
   a) Indigenous agroforestry system & role in climate change nitigation
   b) Carbon farming

Unit - IV

7. Describe the impact of rising temperatures and heatwaves on the regional climate and agricultural productivity. 14

8. Describe in detail India's response to climate change mitigation. 14

Unit - V

9. What is UNFCCC? Describe its objectives and principles. Differentiate between Annex-I and Non-Annex-I parties. Add a note on Paris aggrement. 1+7+3+3=14

10. Write short notes on : 7x2=14
    a) Kyoto Protocol
    b) Green Climate Fund.

★★★

PG EVEN SEMESTER EXAMINATION, 2024

ECOLOGY AND ENVIRONMENTAL SCIENCE

2nd Semester

Course No. : ECGCC - 553

(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. 'GHGs are considered as nuisance, yet small quantities of it is essential for the planet' - place your argument in favour or against statement. What is carbon foot print? Write a note on the carbon cycle. 6+2+6=14

2. Write short notes on : 7x2=14
   a) Green house gases & significance of Mauna Loa curve
   b) In-situ measurement of climate change.

Unit - II

3. Elaborately explain the impact of climate change on rainfall patterns. 14

(Turn Over)