

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

SENV-314

M.Sc. (IIIrd Semester) Examination, 2021

ENVIRONMENTAL SCIENCE

Paper - ESEO-304 (A)

(Climate Science)

Time : 1½ Hours]

[Maximum Marks : 40

Section-A

(Marks : 1 × 10 = 10)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries 1 mark.

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer all *five* questions by selecting at least *one* question from each Unit (Answer limit **200** words). Each question carries 3 marks.

Section-C

(Marks : 5 × 3 = 15)

Note :- Answer any *three* questions by selecting *one* question from each Unit (Answer limit **500** words). Each question carries 5 marks.

Section-A

1 each

1. Attempt all *ten* questions. Answers should not exceed **50** words in each question.

- (i) What is 'Ozone Hole' ?
- (ii) What are super greenhouse gases ?

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- (iii) Name few sources of methane gas. What is the biggest contributor of this gas ?
- (iv) What are Aerosols ?
- (v) What is Carbon Sink ?
- (vi) Why is coral bleaching happening ?
- (vii) Most of the Ozone is found in which sphere of atmosphere ?
- (viii) What is full form of UNFCCC ?
- (ix) Define carbon sequestration.
- (x) What is IPCC ?

Section–B

3 each

Note :- Answer *five* questions in about **200** words, by selecting at least *one* question from each Unit. Each question carries **3** marks.

Unit–I

- 2. What are the effects of ozone depletion on aquatic ecosystem ?
- 3. Briefly describe history of ozone layer depletion
- 4. What is the difference between weather and climate ?

Unit–II

- 5. How can GIS be useful in analyzing global change phenomenon ?
- 6. What is the impact of climate change on food security ?
- 7. Briefly describe anthropogenic drivers of climate change.

Unit-III

8. What is your opinion about imposing carbon tax ?
9. What were important issues and decisions of Doha, Qatar summit ?
10. Explain your opinion about the steps being taken to mitigate global climate change.

Section-C

5 each

Note :- Answer *three* questions in this Section, by selecting *one* question from each Unit in about **500** words. Each question carries **5** marks.

Unit-I

11. Describe the concept of climate modelling. How can it be useful in assessing and predicting climate changes ?
12. Briefly discuss global climate change on different time scale.

Unit-II

13. What are global effects of El Nino ?
14. How is climate change impacting human health ? Discuss giving examples of arid region.

Unit-III

15. Briefly discuss milestones in the history of Kyoto protocol.
16. How strategies and policies can be useful in mitigating global climate changes ? Express your views.