

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

CENV-315

M.Sc. (IIIrd Semester) Examination, Jan.-2023

ENVIRONMENTAL SCIENCE

Paper - FS-ENV-EO-304(a)

(Climate Science)

Time : 3 Hours]

[Maximum Marks : 40

The question paper contains three Sections.

Section-A

(Marks : 1 × 10 = 10)

Note :- The candidate is required to answer all the *ten* questions carries 1 mark each. The answer should not exceed **50** words.

Section-B

(Marks : 3 × 5 = 15)

Note :- The candidate is required to answer *five* questions by selecting at least *one* question from each Unit. Each question carries **3** marks. Answers should not exceed **200** words.

Section-C

(Marks : 5 × 3 = 15)

Note :- The candidate is required to answer *three* questions by selecting *one* question from each Unit. Each question carries **5** marks. The answer should not exceed **500** words.

BRI-952

(1)

CENV-315 P.T.O.

Section–A

1. Attempt all questions :
 - (i) Define Weather.
 - (ii) Define Climate.
 - (iii) Name the various Greenhouse Gases.
 - (iv) What is Food Security ?
 - (v) Climate change models.
 - (vi) What are the Aerosols ?
 - (vii) Climate Governance.
 - (viii) Climate Politics.
 - (ix) Write full form of UNFCCC.
 - (x) Write the role of MOEN and FCC in India.

Section–B

Unit–I

2. Discuss the various climatic conditions in accordance of Landscapes.
3. Discuss the conceptual role of climate science in prediction of changes over years.
4. Define the concept of Greenhouse Effect ? How this effect holds responsible for climate change ?

Unit–II

5. Discuss the role of anthropogenic drivers in climate change.
6. Elaborate the energy security scenario of India in detail.
7. Define the concept of carbon trading in consonance of carbon credits.

Unit–III

8. Explain the conceptual framework of climate resilient agriculture.
9. What are the basic criteria of low carbon development strategy ?
10. Discuss the various approaches of climate fund at global scenario. Justify with some recent examples.

Section–C

Unit–I

11. Illustrate the various climatic models for monitoring the changes over past years.
12. Explain the concept of climate change performance index. Discuss the role of India in perspective of their ranking.

Unit–II

13. Write a detail account on climate refugee based on climate change all over the world.
14. Discuss the various outcomes of recent COP (Conference on Parties) with respect to climate resilient scenario.

Unit–III

15. What is India's national action plan for climate change issues. Discuss in detail.
16. What are the key considerations of G-20 Summit 2023 in perspective of Climate Sustainability ? Discuss their tipping points.