

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

SEM-1026

M.Sc. (Ist Semester) Examination, 2022

ENVIRONMENTAL SCIENCE

Paper - FS-ENV-CC-102

(Environmental Geoscience)

Time : 3 Hours]

[Maximum Marks : 40

The question paper contains three Sections.

Section-A

(Marks : 1 × 10 = 10)

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

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer *five* questions by selecting at least *one* question from each Unit. Each question carries 3 marks. Answer should not exceed 200 words.

Section-C

(Marks : 5 × 3 = 15)

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

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Section–A

1. Attempt all questions. Answers should not exceed **50** words in each question.
 - (i) Define Biosphere.
 - (ii) What are Biomes ?
 - (iii) What do you mean by El Nino ?
 - (iv) What is Plate Tectonic ?
 - (v) What is Avalanche ?
 - (vi) Write the essential trace elements.
 - (vii) What are Geoindicators ?
 - (viii) Define Geochemical Cycle.
 - (ix) Write the side effects of excessive amount of Zinc.
 - (x) Write names of any *four* trace elements.

Section–B

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. Write note on hydrosphere atmosphere.
3. What are Western Disturbances ?
4. Write a note on energy budget of the Earth.

Unit–II

5. Explain catastrophic geological hazards.
6. Describe the concept of residence.
7. Explain the management study of Flood.

Unit–III

8. Write a note on Geoindicators.
9. Write a note on major and REE elements and their applications.
10. Write the possible effects of imbalance of some trace elements.

Section–C

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. Write a note on Indian Monsoon.
12. Explain the climate of India.

Unit–II

13. Write notes on Volcanism and Earthquake.
14. Explain the tools prediction and perception of the hazards.

Unit–III

15. Write a detailed note on mobility of trace elements.
16. Explain the biogeochemical factors in environmental health.