

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

SEM4010

M.Sc. (IVth Semester) Examination, 2021

ENVIRONMENTAL SCIENCE

Paper - ES-401

(Natural Resources and Management)

Time : 1½ Hours]

[Maximum Marks : 40

Note :- 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. Answers 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 *ten* questions. Answer should not exceed **50** words in each question.
 - (i) What is Soil Survey ?
 - (ii) Coal is called fossil fuel, why ?
 - (iii) Define Georeferencing.
 - (iv) What do you mean by ocean energy ?
 - (v) Define anaerobic digestion.
 - (vi) What are the major processes of watercycle ?
 - (vii) Name the largest source of energy.
 - (viii) How is water footprint calculated ?
 - (ix) Define Tidal energy.
 - (x) What is active GIS ?

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. What is data model in GIS ?
3. Write the importance of Soil survey in landuse planning.
4. Give the principle of remote sensing.

Unit–II

5. What are fossil fuels and why they are important for us ?
6. Explain solar radiation.
7. Differentiate between nuclear fission and fusion.

Unit-III

8. What is the environmental impact of mining ?
9. How are reserves different from resources ?
10. Give major factors responsible for global water imbalance.

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. Give an account on the landuse pattern.
12. Discuss the application of remote sensing in Environmental Sciences.

Unit-II

13. Write a brief note on classification, composition and physicochemical characteristic of coal.
14. Discuss the energy use scenario in different parts of world.

Unit-III

15. There are limitations in using oceans as a potential mineral reserve. Comment.
16. Describe the origin and composition of seawater.