

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

SEME-409

M.Sc. (IVth Semester) Examination, 2022

ENVIRONMENTAL SCIENCE

Paper - ESCC-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 *ten* questions (Answer limit **50** words). Each question carries 1 mark.

Section-B

(Marks : 3 × 5 = 15)

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

BI-250

(1)

SEME-409 P.T.O.

Section–A

1. Attempt all *ten* questions.
 - (i) Define Bioenergy.
 - (ii) Name one renewable and one non-renewable source of energy.
 - (iii) What is spectral signature ?
 - (iv) Name of sensors useful for geological studies.
 - (v) List out the remote sensing requirements for forestry applications.
 - (vi) What do you mean by magnetohydrodynamic power.
 - (vii) Define geothermal energy.
 - (viii) What is composition of seawater ?
 - (ix) India is progressing in which type of renewable energy source ?
 - (x) How does energy use pattern influences environment ?

Section–B

Unit–I

2. What is GIS ?
3. What is principles of Remote sensing ?
4. Define Geospatial data.

Unit–II

5. Explain Photovoltaic.
6. Explain the need and importance of bioenergy resource.
7. Write a short note on solar energy.

Unit-III

8. Mention any *two* methods of Water resources Conservation.
9. Give an account on functions of sea level.
10. What is resource accounting ?

Section-C

Unit-I

11. What is the importance of map projections in GIS ? Explain.
12. Write short notes on the following :
 - (a) Remote sensing of landuse applications
 - (b) The role and advantages of Remote sensing and GIS in Environmental studies.

Unit-II

13. Define fossil fuel. What are major types of fossil fuels ? Describe their characteristic and energy content ?
14. Give an account on ocean thermal energy conversion.

Unit-III

15. What is the main objective of water resource management ? What do you mean by fluctuations of sea level ?
16. Write a short note on oceans as new areas for exploration of mineral resources.