Roll No…….. **Total No. of Printed Pages: [01]**
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B.Sc. (Hons.) Chemistry (Semester: 2nd)
ENVIRONMENTAL SCIENCES
Subject Code: BHSMC0041
Paper ID: [19131611A]

Time: 03 Hours **Maximum Marks: 60**

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A **(02 marks each)**

Q1. Attempt the following:

a) What are the direct values of ecosystem services and goods?
b) What is acid mine drainage?
c) Briefly explain the food web in the grassland ecosystem.
d) Enlist the gaseous air pollutants and their source of release.
e) What is an ecological pyramids? Mention the types of ecological pyramids.
f) What is eutrophication?
g) Differentiate between renewable and non-renewable resource?
h) Brief about one people movement related to conserving the environment.
i) What are the regulatory functions of the forests?
j) What is the significance of environmental studies subject?

Section – B **(05 marks each)**

Q2. Write a note on the following (a) Greenhouse gases (b) Geothermal energy

Q3. (a) Equitable use of resources for sustainable lifestyles – Explain the statement with Examples
(b) Write a note on the threats to biodiversity

Q4. With a neat sketch explain the structure of the atmosphere

Q5. What is biomass energy? With examples explain how biomass is used for energy generation. What is the composition of biogas?

Q6. Enlist the functions of the ecosystem.

Section – C **(10 marks each)**

Q7. Write a detailed note on the abiotic and biotic factors of pond ecosystem

Q8. Write a note on (a) air pollution in India (b) Causes and control measures of water pollution

Q9. Write a note on any two of the following (a) Causes, consequences and control measures of deforestation (b) land degradation (c) Solar water heater and solar cookers.