

National Institute of Technology, Delhi

Name of Examination: B.Tech First Year (AY-2022-2023)

End semester Examination

Branch- CE/ECE / EEE

Semester- I

Title of the Course: Environmental Sciences

Course Code: CELB101

Time: 3 Hours

Maximum Marks: 50

Note- Attempt all questions

Attempt the questions in the given order only

SECTION –A

Attempt all questions of this section

(1x10=10)

1. Why world Ozone Day is celebrated on 16th September?
2. Who discovered the Ozone hole over Antarctica?
3. Why the value of COD is higher than BOD?
4. What is Eutrophication?
5. Where is Jim Corbett National Park Situated?
6. Write the two useful values of Biodiversity?
7. Vienna convention is related to which environmental issue?
8. What is the limitation of BOD test?
9. What is good and bad ozone?
10. Define global warming?

SECTION—B

Attempt all four questions of this section

(5x4=20)

1. What is Natural Green house effect? Explain in detail the mechanism of enhanced green house effect and its consequences. Also, discuss Kyoto Protocol.
2. Define air pollution. Write a detailed note on generation and effects of air pollution (on human health, buildings and plants) and control measures.
3. What are the types of Biodiversity? Explain in detail the various conservational strategies of biodiversity.

4. What are the Ecological Pyramids? Explain in detail the various types of Ecological Pyramids with the help of diagram?

SECTION –C

Attempt any two questions of this section

(10x2=20)

1. Differentiate between primary and secondary pollutants. Explain in detail the sources of water pollutants, effects and design of wastewater treatment plants with the help of suitable diagram.
2. Define Photochemical and London smog. Explain in detail the formation, nature, effects and control measures of Photochemical smog.
3. Explain Ozone layer depletion and role of CFCs in it and its effects in detail. Also, discuss the Montreal protocol.