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GIET UNIVERSITY, GUNUPUR – 765022
M. Sc (Third Semester) Examinations, December' 2020
CHOE307 – CHEMISTRY AND ENVIRONMENT
(Chemistry)

Time: 2 hrs

Maximum: 50 Marks

(The figures in the right hand margin indicate marks.)

- Q.1. Answer **ALL** the questions (2 x 10 = 20)
- Differentiate between Biome and ecosystem
 - List the four conceptual spheres in the earth's environment
 - List out the major factors for worsening the present water crisis.
 - What is geothermal energy?
 - What are the major contaminants in domestic sewage?
 - What are point sources of pollutants?
 - What are particulates?
 - List any two major greenhouse gases and its sources.
 - What are the principal sources of air pollution?
 - Describe the general effects of pollution on living and non-living organisms.

PART – B (6 x 5 =30 Marks)

- Answer ANY FIVE questions Marks
- Explain the biogeochemical cycles of phosphorus and sulphur. (6)
 - List out the anthropological factors influencing Environmental Degradation. (6)
 - Briefly explain about conventional energy resources. (6)
 - Compare and contrast nuclear power with solar power from the environmental point of view. (6)
 - Discuss about the types of pollutants present in wastewater obtained from
i). Food processing industry ii). Textile industry iii). Chemical industry (6)
 - How to control radiation pollution? (6)
 - Explain the mechanism of formation of acid rain. What are the causes and effects of acid rain? (6)
 - Explain the phenomenon of global warming and the factors contributing to it (6)

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