

**GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY UNIVERSITY, ODISHA, GUNUPUR  
(GIET UNIVERSITY)**

B.C.A. (First Semester) Regular Examinations, January – 2025

**BCA23102 – Environmental Studies**

(BCA)



Time: 3 hrs

Maximum: 60 Marks

(The figures in the right hand margin indicate marks)

**PART – A**

**(2 x 5 = 10 Marks)**

Q.1. Answer **ALL** questions

- |  | CO # | Blooms<br>Level |
|--|------|-----------------|
| a. Difference between synecology and autecology.         | CO1  | K1              |
| b. Define food chain. Give two example of it.            | CO1  | K1              |
| c. Write the role of Environmental Studies in pollution. | CO2  | K1              |
| d. Write the causes for formation of waste land.         | CO3  | K2              |
| e. List various effects if we over utilized water.       | CO3  | K2              |

**PART – B**

**(10 x5=50 Marks)**

Answer **ALL** questions

- |   | Marks | CO # | Blooms<br>Level |
|---|-------|------|-----------------|
| 2. a. Explain the ecological pyramids and its types.  | 5     | CO1  | K2              |
| b. Describe the characteristics of food chain and types of food chain.                        | 5     | CO1  | K1              |
| (OR)  |       |      |                 |
| c. Explain about water cycle and nitrogen cycle in brief.                                     | 5     | CO2  | K2              |
| d. “Environment is the best gift to mankind”. Justify the statement.                          | 5     | CO1  | K5              |
| 3.a. How do agrochemicals contribute to soil pollution?                                       | 5     | CO2  | K2              |
| b. Write the causes and effects of radiation pollution.                                       | 5     | CO3  | K2              |
| (OR)  |       |      |                 |
| c. Describe the various health issues due to poor air quality.                                | 5     | CO2  | K2              |
| d. Write are various environmental treaties. Why are they important?                          | 5     | CO3  | K2              |
| 4.a. Differentiate between lava and magma.  | 5     | CO3  | K4              |
| b. Explain about global warming and climate change.   | 5     | CO3  | K2              |
| (OR)  |       |      |                 |
| c. Explain the salient features of water prevention and control and pollution Act 1974.       | 5     | CO3  | K1              |
| d. Write are the various improvements seen in agriculture.                                    | 5     | CO3  | K4              |
| 5.a. Write short note on:- (i) Floods (ii) Tsunami  | 5     | CO3  | K2              |
| b. Explain the steps to conserve biodiversity.  | 5     | CO3  | K3              |
| (OR)  |       |      |                 |
| c. Define oil spill. Describe its effects on marine ecosystem.                                | 5     | CO2  | K2              |
| d. Explain the causes and effects of solid waste management.                                  | 5     | CO2  | K2              |
| 6.a. How increasing in industrialization affect the ecosystem?                                | 5     | CO4  | K2              |
| b. Explain the steps to be taken to control land and water pollution.                         | 5     | CO2  | K2              |
| (OR)  |       |      |                 |
| c. High radioactive exposure to environment is dangerous for the ecosystem. Give reasons why? | 5     | CO4  | K2              |
| d. Mention some laws you have to maintain in public areas in relation to environment.         | 5     | CO3  | K2              |

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