

--	--	--	--	--	--	--	--	--	--

**GIET UNIVERSITY, GUNUPUR – 765022**

B. C. A (First Semester) Examinations, April' 2021

BCA20102– ENVIRONMENTAL STUDIES

Time: 3 hrs

Maximum: 70 Marks

The figures in the right hand margin indicate marks.**PART – A: (Multiple Choice Questions)****(1 x 10 = 10 Marks)****Q. 1 Answer ALL questions**

- a. Ecosystem may be defined as
(i) A species along with environment (ii) Plants found in water
(iii) Plants found on land (iv) Plants and animals species along with environment
- b. Which one is not a factor of the abiotic environment?
(i) Temperature (ii) Water
(iii) Decomposers (iv) Sunlight
- c. The source of carbon to plants in the carbon cycle is
(i) Fossil fuels (ii) Carbonate rocks
(iii) Atmospheric carbon dioxide (iv) All of the above
- d. Which one of the following medical condition caused by the high exposure of radiation?
(i) Kidney stone (ii) AIDS
(iii) Mutation (iv) Blood pressure
- e. Which of the following gas is produced from landfill wastes?
(i) Biogas (ii) Natural gas
(iii) Liquefied petroleum gas (iv) All of the above
- f. Sound is measured in
(i) Hertz (ii) Decibel
(iii) ppm (iv) None of the above
- g. The Wildlife (Protection) Act was enacted in the year:
(i) 1986 (ii) 1974
(iii) 1994 (iv) 1972
- h. The depletion in the Ozone layer is caused by
(i) Carbon dioxide (ii) Nitrous oxide
(iii) Methane (iv) Chlorofluorocarbon
- i. Modern concept of sustainable development focuses more on
(i) Economic development (ii) Social development
(iii) Environmental protection (iv) All of the above
- j. NGT has banned kite strings made of which material?
(i) Nylon (ii) Plastic
(iii) Any synthetic material (iv) All of the above

PART – B: (Short Answer Questions)**(2 x 10 = 20 Marks)****Q.2. Answer ALL questions**

- a. State the significance and scope of environmental studies.
- b. Define Ecology
- c. What is meant by lithosphere.
- d. Name any two air pollutants and their sources and effects.

- e. Mention some important natural sources for nuclear hazards.
- f. Differentiate between recycling and reuse.
- g. How can global warming be controlled?
- h. Name some of the acts enacted by the Indian Government to protect the environment.
- i. What is meant by sustainable development?
- j. How many national green tribunals are there in India?

PART – C: (Long Answer Questions)

(10 x 4 = 40 Marks)

Answer ALL questions

- 3.a. Briefly discuss the structure and function of an ecosystem. (5)
- b. Write short note on food chain and food web.(5)
- (OR)
- c. What is Ecological pyramid? Explain its types.(5)
- d. Explain phosphorous cycle.(5)

- 4.a. Write a detailed note on Disaster Management. (5)
- b. Describe sources, effects and control of land pollution.(5)
- (OR)
- c. Discuss nuclear pollution and hazards caused by nuclear wastes.(5)
- d. List and explain the methods of solid waste management. (5)

- 5.a. What is meant by acid rain? How does it form? What are the major impacts?(5)
- b. Explain the salient features of Air Act.(5)
- (OR)
- c. How is ozone formed? Write the causes and effects of ozone depletion.(5)
- d. Explain the causes and effects of floods.(5)

- 6.a. Discuss the importance of environmental ethics.(5)
- b. How can an individual play a role in the conservation of natural resources?(5)
- (OR)
- c. Discuss in detail about National Green Tribunal.(5)
- d. Explain the importance of sustainable development.(5)

--- End of Paper ---