

Roll No.

Total Pages : 3

311305

December 2022

BCA/BCA(DS) - IIIrd SEMESTER

Environment Science (BCA-17-204B)

Time : 3 Hours]

[Max. Marks : 75

Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any four questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART-A

1. (a) Why there is a need for public awareness about Environmental issues? Discuss Indian scenario. (1.5)
- (b) What is the scope of studying Environmental Sciences? (1.5)
- (c) What are Ecological pyramids? Explain why some of these pyramids are upright while others are inverted in different ecosystems. (1.5)
- (d) What are the ecological and commercial uses of forests? (1.5)
- (e) Differentiate primary and secondary air pollutants? Give examples. (1.5)

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- (f) Differentiate food chain and food web. Give examples. (1.5)
- (g) What are the harmful effects of ozone hole formation? (1.5)
- (h) Explain 5R's approaches for solid waste management. (1.5)
- (i) Write about hot spots of biodiversity. Name some in Indian context. (1.5)
- (j) How can you as an individual conserve different natural resources and prevent environmental pollution? (1.5)

PART-B

- 2. (a) Give a brief account of Renewable and Non-renewable energy resources. Discuss different types and their feasibility. (8)
- (b) Define biodiversity. What are different methods of conservation of biodiversity? Explain with examples. (7)
- 3. (a) How energy flow takes place in an ecosystem? Explain Single channel energy flow model with the help of suitable diagrams. (8)
- (b) Write a short note on Ecological Succession illustrating its various steps. (7)

- 4. What is greenhouse effect? What are different greenhouse gases and how they contribute to global warming? What are the effects of global warming? (15)
- 5. (a) Explain sources, causes and consequences of surface and ground water pollution? Describe any five water pollutants in detail. (8)
- (b) Explain about thermal pollution. How does it occur? What are various methods for its control in industries? (7)
- 6. (a) Write a short note on causes, effects and control measures of urban and industrial wastes. (8)
- (b) Elucidate the statement "Population, Consumerism and Waste generation are inter-related". (7)
- 7. Write short notes on the following :
 - (a) Sustainable Development.
 - (b) Rainwater harvesting.
 - (c) Watershed management. (15)