

10. (a) Explain about Carbon and Nitrogen cycle along with their illustrative diagrams. [7]
- (b) Write short notes on the following : [7]
- (i) Sustainable Development
- (ii) Ambient Air Quality

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Question Paper Code : 6624

BCA (Semester-I) Examination, 2021

FUNDAMENTALS OF ENVIRONMENTAL SCIENCES

[Paper : BCA-105]

Time : Three Hours]

[Maximum Marks : 70

Note : Answer any five questions. All questions carry equal marks.

1. (a) Briefly explain the components of Ecosystem along with their interactions. [7]
- (b) What do you understand by EIA ? Write down the salient features with respect to EIA notification 2006. [7]
2. (a) Write down the effect of human activities on agriculture and transportation activities. [7]
- (b) Explain energy flow in an ecosystem. Also elaborate about trophic level. [7]

3. (a) Write down the distribution of mineral resources in different regions of India. [7]

(b) Explain about different conventional sources of energy. [7]

4. (a) Briefly explain about ferrous and non-ferrous minerals along with their examples. [7]

(b) Why are renewable sources of energy are important in aspects of environmental sustainability? [7]

5. (a) What are effects of air pollution and what are the measures to control air pollution? [7]

(b) What do you understand by Ozone layer depletion? What are its causes and effect? [7]

6. (a) Write short notes on the following : [7]

(i) Acid rain

(ii) Photochemical smog

(b) Define Water Pollution. Also write down the sources and effects of water pollution on environment and health. [7]

7. (a) Explain briefly the modern techniques used in the analysis of pollutants and pesticides. [7]

(b) What do you understand by Environment Protection Act? Write down the salient features of this act. [7]

8. (a) Explain briefly about ISO : 14000. [7]

(b) What do you understand by Green Building Concept? What are the necessary requirements for designing of green building? [7]

9. (a) What is the role of government in protection of Environment? Also write down the steps taken by government in protecting the environment. [7]

(b) Explain briefly about solid waste management and different processes involved in solid waste management. [7]