

BBA
Environmental Science
Subject Code : CE-216
Paper ID-C0234

Time : 3 hrs.**MM : 60**

Section – A

Note: Section A is compulsory. Attempt all the parts of the question. Each part carries 2 marks.

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| 1. (a) | Name 4 Indian contributors towards environment. | 2 |
| (b) | What are point and mobile sources of air pollution? Give examples. | 2 |
| (c) | Define (a) carrying capacity (b) zero population growth | 2 |
| (d) | What is biomedical waste? What is the best method to dispose it off. | 2 |
| (e) | Give 2 adverse environmental impacts of modern agriculture. | 2 |
| (f) | Give 4 major environmental acts in India. | 2 |
| (g) | Give one structural and one non-structural control strategy for flood mitigation. | 2 |
| (h) | What are biodiversity 'Hot spots'. Name two 'hot spot' zones of biodiversity in India. | 2 |
| (i) | Why has the population of vultures declined in India? | 2 |
| (j) | Why is the pyramid of energy always upright? | 2 |

Section – B

Note : Attempt **any four** questions. Each question carries 10 marks. Each part of the same question should be strictly at the same place.

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| 2. (a) | What is ozone depletion? Explain the reactions leading to the formation and destruction of ozone in the stratosphere. Explain the possible impacts of ozone depletion on the ecosystem. | 6 |
| (b) | What is 'sustainable water management'? Discuss the various water conservation methods and techniques which can be used in agriculture and municipal sectors. | 4 |
| 3. (a) | Define ecosystem and describe the concept of an ecosystem. Along with a labelled diagram explain the flow of energy and cycling of nutrients through various components of an ecosystem. | 6 |
| (b) | What is ecological or biotic succession? Describe the process of biotic succession on a bare rock or in a pond. | 4 |

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| 4. | (a) | Define 'energy' and differentiate between conventional and non-conventional energy sources with examples. Why should solar energy be utilized as an alternative to fossil fuels? Name the various devices to harness the solar energy. | 6 |
| | (b) | Discuss the major causes and consequences of deforestation. Explain the various ecological services rendered by forests. | 4 |
| 5. | (a) | What is solid waste? Along with a suitable diagram, explain the process of sanitary landfill for the disposal of municipal solid waste highlighting the merits and demerits associated with it. | 6 |
| | (b) | What are point and non-point sources of water pollution. Give the list of various pollutants/contaminants which affect the utility value of water. | 4 |
| 6. | (a) | What are age or population pyramids and what do they signify. Draw a typical population pyramid of India and discuss how it is likely to differ from that of Japan and Germany (with diagrams). | 6 |
| | (b) | What is meant by "population explosion"? Discuss the various reasons for human population explosion and the environmental problems posed by it. | 4 |
| 7. | | What is biodiversity and its importance? Discuss the main threats to the biodiversity and describe the various methods and strategies for biodiversity conservation. | 10 |
