

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.

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.

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

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**
