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Total No. of Pages: 02

Total No. of Questions: 07

BCA(2011 & Onwards)/B.Sc.(IT) (2015 & Onwards) (Sem. – 2)

ENVIRONMENTAL SCIENCE

M Code: 10056

Subject Code: EVSC-101

Paper ID: [B1112]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **SIX** questions carrying **TEN** marks each and students have to attempt any **FOUR** questions.
3. Each part of the same questions should be strictly at the same place.

SECTION A

1. a) Name 2 Indian contributors towards environment. 20
b) Name 3 subdivisions of biosphere and the material they provide to living organisms.
c) Name one producer, one consumer, one decomposer and one detritivore.
d) Explain 10% law regarding flow of energy.
e) Name a few devices to harness solar energy.
f) What are aerosols and why their use should be minimized?
g) Give one structural and one non-structural control strategy for flood mitigation.
h) What is noise? Sound of what intensity is harmful for our ears?
i) Name 3 types of threatened species in order of the danger of extinction they face.
j) What is zero population growth? Name 2 countries who have achieved it.

SECTION B

2. a) What is acid rain and how is it formed? Discuss the major impacts of acid rain and the measures to control it. 5
b) “Water is a limited natural resource” - Justify the statement. Discuss the merits as well as problems/conflicts associated with dams. 5
3. a) What are food chains and food webs? Draw a diagram of a food web in any ecosystem and why are food webs ecologically more stable. 5
b) What is ecological or biotic succession? Describe the process of Biotic succession on a bare rock or a pond. 5
4. a) Define energy and differentiate between conventional and non-conventional energy resources. Discuss the pros and cons of using coal as an energy resource. 5
b) Discuss the major causes and consequences of deforestation. Explain the various ecological and economical services rendered by forests. 5
5. a) Discuss the main threats to the biodiversity and describe the various methods and strategies for biodiversity conservation. 5
b) What are stationary and mobile sources of air pollution? Give their examples. Discuss the strategies and methods which can be adopted to control air pollution from motor vehicles. 5
6. a) What are age structure diagrams 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 diagram)?
b) Describe the powers and measures of Environment (Protection) Act and the Air (Prevention and control of pollution) Act. 5
7. Write notes on any four: 10
 - a) Primary and secondary air pollutants
 - b) Bharat gas tragedy
 - c) Eutrophication--its causes and consequences
 - d) Sanitary land fills and their advantages
 - e) Solar cell and its applications