

**PARUL UNIVERSITY**  
**FACULTY OF ENGINEERING & TECHNOLOGY**  
**B.Tech. Summer 2018 – 19 Examination**

**Semester: 1**  
**Subject Code: 03104103**  
**Subject Name: Environmental Studies**

**Date: 17/05/2019**  
**Time: 02:00pm To 04:30pm**  
**Total Marks: 60**

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**Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

**Q.1 Objective Type Questions - (All are compulsory) (Each of one mark) (15)**

1. Largest reservoir of Nitrogen is exists in :
  - (A) Atmosphere
  - (B) Stratosphere
  - (C) Hydrosphere
  - (D) Lithosphere
2. Eutrophication means
  - (A) Water purification
  - (B) Neutralization of waste water
  - (C) Waste water Treatment process
  - (D) Enrichment of plant nutrients in water bodies
3. The two major components of ecosystem are
  - (A) Abiotic and biotic
  - (B) Cyclic and biologic
  - (C) Adiabatic and isotropic
  - (D) Ecologic and climatologic
4. Objective of environmental studies is to
  - (A) Create environmental ethics that foster awareness about the ecological inter - dependence of economic, social and political factors in a human community and the environment
  - (B) Acquiring skills to help the concerned individuals in identifying and solving environmental problems
  - (C) Raise consciousness about environmental conditions
  - (D) All the above.
5. The sequence of eating and being eaten in an ecosystem is called
  - (A) food chain
  - (B) carbon cycle
  - (C) sulphur cycle
  - (D) hydrological cycle
6. Which atmospheric layer is closest to the Earth's surface \_\_\_\_\_.
7. The science that deals with the relationship of various organisms with their environment is known as \_\_\_\_\_.
8. Full form of EIA \_\_\_\_\_.
9. Bhopal gas tragedy occurred due to the leakage of \_\_\_\_\_.
10. Loss of water content through the plants into the atmosphere is called \_\_\_\_\_.
11. Generation of wind energy is mainly based on which factor \_\_\_\_\_.
12. What is sequence of eating and being eaten in an ecosystem is called.
13. Which part of plant contains nitrogen fixing bacteria?
14. Amount of carbon dioxide present in atmospheric air is \_\_\_\_%.
15. A food web consists of \_\_\_\_\_.

- Q.2 Answer the following questions. (Attempt any three) (15)**
- A) What are the causes of Population Explosion?
  - B) Explain air pollutant and its classification.
  - C) Explain deforestation and its causes.
  - D) Explain water cycle with suitable sketch.
- Q.3 A) Explain classification of ecosystem. (07)**
- B) Explain- (08)**
- 1. Explain municipal solid waste and its sources.
  - 2. What is global warming?
- OR**
- B) Explain Energy resources and its classification. (08)**
- Q.4 A) What is Environmental Protection Act and its function (07)**
- OR**
- A) Explain natural resources and various types. (07)**
- B) Short notes- (08)**
- 1. Climate variability
  - 2. Noise Pollution