

**PARUL UNIVERSITY**  
**FACULTY OF ENGINEERING & TECHNOLOGY**  
**B.Tech. Summer 2017 - 18 Examination**

**Semester:1, 2**  
**Subject Code: 03104103**  
**Subject Name: Environmental Studies**

**Date: 26/05/2017**  
**Time: 2:00pm to 4:30pm**  
**Total Marks: 60**

**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****(15)**

1. Define Population growth
2. Define Environmental Ethics
3. Biosphere includes \_\_\_\_\_
4. Which of the following is Greenhouse Gas?
  - a)  $\text{CO}_2$
  - b) NOX
  - c) Methane
  - d) All of the above
5. Which of the following is Conventional source of energy?
  - a) Wind Energy
  - b) Hydropower Energy
  - c) Nuclear Energy
  - d) Geothermal Energy
6.  $\text{HNO}_3$  and \_\_\_\_\_ formed combine with HCl to generate precipitation which is commonly referred as acid rain
7. The frequency limit of audibility are from \_\_\_\_\_ to \_\_\_\_\_.
  - a) 20 to 20,000 HZ
  - b) 10 to 100 HZ
  - c) 50 to 500 HZ
  - d) 100 to 1000 HZ
8. For Measurement of sound, Combination of intensity and frequency measured as \_\_\_\_\_
9. What do you most prefer for solid waste disposal as management policy?
10. Desirable limit for total hardness?
  - a) 300 mg/l
  - b) 600 mg/l
  - c) 450 mg/l
  - d) 200 mg/l
11. What Pyramid of energy represents?
12. Feeding level of Nutrition (Trophic) structure includes \_\_\_\_\_
13. Give one serious cause of CO and NOX affected to human being and give their % concentration
14. Give formation of Photochemical oxidants
15. What will be the outcome of Eutrophication of surface waters?
  - a) Overproduction of biomass
  - b) Decrease in nitrogen concentration
  - c) Decrease in phosphorus concentration
  - d) Decrease in both nitrogen and phosphorus concentrations.

**Q.2 Answer the following questions. (Attempt any three)****(15)**

- A) What is Population explosion? State the reasons and problems posed by population explosion.
- B) What is Urbanization? What are the environmental Problems due to Urbanization
- C) What are the sources of solid waste? Give their Example
- D) Explain Bio diversity and eco system services

**Q.3 A) Draw carbon cycle and nitrogen cycle.****(07)**

- B) Give Five Measures for controlling Global Warming. **(08)**
- Give Function of Environment Impact Assessment.

**OR**

- B) Enlist Environmental Act In India. Write A Short Note On Air (Prevention And Control Of Pollution) Act, 1981. **(08)**

**Q.4** A) Write a short note on 'Acid Rain'.

**(07)**

**OR**

A) Explain any one control of water pollution from primary & secondary with neat sketch

**(07)**

B) Explain Water Resource- stress on water resources & conservation of water resources.

**(08)**