

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) CO₂
 - 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. HNO₃ 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)