

**PARUL UNIVERSITY**  
**FACULTY OF APPLIED SCIENCE**  
**B.Sc Winter 2018-19 Examination**

**Semester: 1**  
**Subject Code: 11100101**  
**Subject Name: Environmental Science**

**Date: 19/12/2018**  
**Time: 10.30 am to 1.00 pm**  
**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. A) Essay type (08)**  
 (a) Define atmosphere and discuss its structure with diagram. (08)
- Q.1. B) Answer the following questions (Any two) (04)**  
 (a) Short note/ Brief note (2x2)/ Schematically label the figures (2x2) (Each of 02 marks) (04)  
 1. Write a brief note on composition of atmosphere.  
 2. Draw a labeled diagram of solar cooker.  
 (b) Write a detailed note on pollution and its classification. (04)  
 (c) Briefly describe the importance of forest resources. (04)
- Q.2. A) Answer the following questions. (04)**  
 (a) Short note/ Brief note (2x2)/ Fill in the blanks. (Each of 02 marks) (04)  
 1.CFC stands for \_\_\_\_\_.  
 2.ESP stands for \_\_\_\_\_.  
 (b) What do you mean by non renewable energy resources? Discuss each in brief. (04)
- Q.2. B) Answer the following questions (Any two) (03)**  
 (a) Short note/ Multiple choice questions. (Each of 01 marks) (03)  
 1. The other name of stratosphere is \_\_\_\_\_  
 2. The Oxygen contributes for about \_\_\_\_\_% in the atmosphere.  
 3.PVS stands for \_\_\_\_\_.  
 (b) Define Point sources and non-point sources of water pollution. (03)  
 (c) Write a brief note on filtration and sedimentation method used for control of water pollution. (03)
- Q.3. A) Essay type/ Brief note (4x2) (Each of 04 marks) (08)**  
 (a) Differentiate between nuclear fission and nuclear fusion.  
 (b) Differentiate among alpha ,beta and gamma radiations.
- Q.3. B) Answer the following questions (Any two) (04)**  
 (a) Short note/ Brief note (2x2)/ Schematically label the figures (2x2) (Each of 02 marks) (04)  
 1. Write the names of different parts of a nuclear reactor.  
 2. Write the disadvantages of hydro energy.  
 (b) Discuss the sources, effects and control of thermal pollution. (04)  
 (c) Discuss Wind Energy Conversion System with the help of diagram. (04)
- Q.4. A) Answer the following questions. (04)**  
 (a) Short note/ Brief note (2x2)/ Fill in the blanks. (Each of 02 marks) (04)  
 1. Write the names of renewable resources of energy.  
 2. Give the names of types of wind turbines.  
 (b) Write the advantages and disadvantages of solar energy. (04)
- Q.4. B) Answer the following questions (Any two) (03)**  
 (a) Short note/ Multiple choice questions. (Each of 01 marks) (03)  
 1. Carbon dioxide is an example of –  
 (a) Green house gas (b) air pollutant (c) Water pollutant (d) None  
 2. Cyclones are used in removing -  
 (a) Particulate matter (b) Gaseous pollutants (c) Both (d) None  
 3. Electrostatic precipitators are used for-  
 (a) Removal of particulates (b) Gaseous air pollutants (c) Both (d) None  
 (b) Write **only the names of methods** used for controlling the particulate matter present in air. (03)  
 (c) Write Short note on wind energy. (03)