

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-I &II (NEW) EXAMINATION – SUMMER-2019****Subject Code: 2110007****Date: 15/06/2019****Subject Name: Environmental Studies****Time: 10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

1. Question No.1 is compulsory. Attempt any four out of remaining six questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q. 1 Objective Question (MCQ)

(a) Choose the most appropriate answer for the following multi choice questions: **07**

- 1 Transfer of energy from one tropical level to another tropical level is about
(a) 90% (b) 10% (c) 20% (d) 80%
- 2 Which of the following is not a method for water conservation?
(a) Rain water Harvesting (b) Ground water extraction
(c) Improving irrigation efficiency (d) Avoiding water wastage
- 3 World Environment Day is celebrated on
(a) 5th June (b) 12th May (c) 22nd April (d) 22nd May
- 4 Plants convert light energy into chemical energy through photosynthesis are called
(a) herbivores (b) heterotrophs (c) autotrophs (d) consumers
- 5 A zone consisting of Land, water and air which supports life is called
(a) Atmosphere (b) Hydrosphere (c) Biosphere (d) Lithosphere
- 6 The average number of persons living per sq. km. is known as
(a) Community (b) Population growth
(c) Population (d) Population density
- 7 Acid rain contains
(a) Sulphuric acid (b) Oxalic acid (c) Acetic acid (d) Hydrochloric acid

(b) Choose the most appropriate answer for the following multi choice questions: **07**

- 1 Stratosphere contains an important gas which protects life on Earth is
(a) Oxygen (b) Ozone (c) Nitrogen (d) Hydrogen
- 2 Fossil Fuels are
(a) Renewable resources (b) Non renewable resources
(c) Both (d) None of these
- 3 Chipko movement is associated with conservation of
(a) illiteracy (b) soil (c) water (d) forest
- 4 Rise in the sea level is due to
(a) Ozone depletion (b) Acid rain (c) Smog (d) Global warming

- 5 Which one is green house gas
(a) Oxygen (b) Nitrogen (c) Carbon Dioxide (d) Sulphur Dioxide
- 6 Which one of the intensity level of noise?
(a) Decibel (b) Newton (c) Pascal (d) Watt
- 7 Fluoride pollution mainly affects
(a) Kidney (b) Brain (c) Teeth (d) Eyes
- Q. 2** (a) Define: (i) Environment (ii) Producers (iii) Carnivores (3)
(b) List the various sources of water. (4)
(c) Explain the various components of environment. (7)
- Q. 3** (a) Discuss the role of GPCB & CPCB for environmental protection (3)
(b) Discuss the problems created by over population. (4)
(c) What do you understand by the term Deforestation? Discuss the various causes and effects of Deforestation. (7)
- Q. 4** (a) Differentiate renewable and non- renewable natural resources (3)
(b) Write a note on importance of environmental education. (4)
(c) Write a short note on Acid Rain. (7)
- Q. 5** (a) Give the different sources of food. (3)
(b) Explain the economical and ecological importance of forest. (4)
(c) Describe 'Environmental Protection Act, 1986' with its objectives. (7)
- Q. 6** (a) Discuss the oxygen cycle. (3)
(b) Give the classification of air pollutants. (4)
(c) State the types of ecological pyramid and describe the pyramid of energy showing the energy flow. (7)
- Q. 7** (a) Explain the term land pollution. (3)
(b) Explain the various sources of water pollution. (4)
(c) What is noise pollution? Explain various causes and effects of noise pollution. (7)
