

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE SEMESTER 1st / 2nd (NEW) EXAMINATION WINTER 2016

Subject Code: 2110007

Date: 30/01/2017

Subject Name: Environmental Studies

Time: 10:30 AM TO 1:00 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 correct answer of the following multiple choice questions. **07**
1. The layer of atmosphere which is harmful due to the presence of pollution is
a) Stratosphere b) Troposphere c) Ionosphere d) Exosphere
 2. The world Environment day is celebrated on
a) 15th June b) 5th June c) 5th January d) 15th February
 3. Energy Pyramid is
a) Upright b) Linear c) Inverted d) Not certain
 4. Autotrophs are defined as
a) Those who prepare their own food
b) Those who depend on producers for their food
c) Can do both things
d) None of the above
 5. Chipko movement is related with
a) Soil conservation b) Forest conservation
c) Ganga bachao andolan d) None of these
 6. Nitrate pollution causes
a) Skin diseases b) Typhoid
c) Blue baby diseases d) None of these
 7. The deaths of infants per 1000 births, are known as
a) Birth rate b) Mortality c) Total Fertility rate d) Infant mortality rate
- (b) Choose the most correct answer of the following multiple choice questions. **07**
1. Bhopal gas tragedy was due to leakage of
a) Methyl isocyanate b) CO c) Chloro benzene d) None of these
 2. Which one is the correct food chain?
a) Phytoplankton → Zooplankton → Fish
b) Zooplankton → Phytoplankton → Fish
c) Grass → Fish → Zooplankton
d) All of the above
 3. Asthma, bronchitis and silicosis disease are
a) Air borne b) Water borne
c) Both (a) and (b) d) None of these
 4. Damaging of Taj Mahal is due to
a) CFCs b) Hydrogen c) CO d) SO₂
 5. Lakes which are rich in nutrients are
a) Eutrophic b) Oligotrophic c) Mesotrophic d) None of these

6. Which of the following is an example of impact of the development activities on hydrosphere?
- Air Pollution
 - Soil Pollution.
 - Noise Pollution
 - Water Pollution.
7. Which of the following statements about forest is not correct?
- Forests reduces soil erosion
 - Provides recreational opportunities
 - Provides a source of economic development
 - None of the above
- Q.2** (a) Draw the flow chart of components of ecosystem. **03**
(b) Write in points: conservation of Environment. **04**
(c) Explain the impact of technology and development on Environment. **07**
- Q.3** (a) Define Renewable resources, Saprotrophs and Ecology. **03**
(b) What are the causes of land degradation? **04**
(c) Enlist different bio-geo chemical cycles and explain the carbon cycle with neat sketch. **07**
- Q.4** (a) Define Air pollution, Consumers and Biomagnifications. **03**
(b) Describe the ecological and economical use of forest. **04**
(c) Discuss effects of air pollutants on human health. **07**
- Q.5** (a) Define the term Green house effect and Acid rain. **03**
(b) What are the effects of thermal pollution and detergents on aquatic life? **04**
(c) What are the environmental impacts of a coal based thermal power plant? Suggest suitable solution to the energy problems in view of growing population and industrialization of India. **07**
- Q.6** (a) Define Population explosion and Over population **03**
(b) Define the term population explosion and discuss the reason and effects of population explosion. **04**
(c) Give your views about river pollution due to rapid urbanization. **07**
- Q.7** (a) Give the full form of: GPCB, GEMI and GEC. **03**
(b) Describe "Environmental Protection Act 1986". **04**
(b) How does depletion of Ozone layer take place in the atmosphere? Explain the ill effects of Ozone depletion. **07**
