

[Total No. of Questions - 9] [Total No. of Printed Pages - 4]  
(2125)

15204

**B. Tech 6th Semester Examination**

**Environmental Science (OS)**

CE-6006

**Time : 3 Hours**

**Max. Marks : 100**

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Attempt any one question from each of the section A, B, C, D & all the questions from section E.

**SECTION - A**

1. (a) Write short notes on:
  - (i) Major layers of atmosphere.
  - (ii) Importance of environmental studies. (5+5=10)
- (b) Define environment. Also explain the need for public awareness about the environment. (10)
2. (a) Write short notes on:
  - (i) Drought
  - (ii) Soil erosion (5+5=10)
- (b) How can an individual play a role in conserving the natural resources? (10)

**SECTION - B**

3. (a) Write short notes on:
  - (i) Ecological pyramid
  - (ii) Food chain (5+5=10)

**[P.T.O.]**

2

15204

- (b) What are the various types of aquatic ecosystems? Explain each of them briefly. (10)
4. (a) Write short Notes on:
  - (i) Importance of biodiversity.
  - (ii) Ex-situ conservation of biodiversity. (5+5=10)
- (b) Illustrate the statement 'India as a mega-diversity nation'. (10)

**SECTION - C**

5. (a) Write short notes on:
  - (i) Air pollutants
  - (ii) Nuclear Hazard (5+5=10)
- (b) How can an individual play a role in prevention of pollution? (10)
6. (a) Write short Notes on:
  - (i) Ozone layer depletion
  - (ii) Acid rain (5+5=10)
- (b) What are the various measures that can be taken for water conservation? (10)

**SECTION - D**

7. (a) Write short notes on:
  - (i) Population Explosion in India
  - (ii) Value education (5+5=10)
- (b) What do you understand by Women welfare? What are the various policies/programmes implemented in India for development of women? (10)

3

15204

8. (a) Write short Notes on:
- (i) Population growth in India
  - (ii) HIV/AIDS
- (b) How is information technology helpful for environment?

(5+5=10)

(10)

**SECTION - E**

9. Attempt the following questions.

- (a) World environment day is celebrated on
- (i) 5<sup>th</sup> July
  - (ii) 6<sup>th</sup> July
  - (iii) 5<sup>th</sup> June
  - (iv) 6<sup>th</sup> June
- (b) Which of the following is renewable resource of energy?
- (i) Coal
  - (ii) Minerals
  - (iii) Petroleum
  - (iv) Wind energy
- (c) Biotic & abiotic component are linked together by
- (i) Mutualism
  - (ii) Food chain
  - (iii) Nutrient cycling
  - (iv) Positive Interaction
- (d) Most stable ecosystem is
- (i) Forest
  - (ii) Desert
  - (iii) Grassland
  - (iv) Ocean
- (e) Which of the following is an example of insitu conservation?
- (i) National Park
  - (ii) Sanctuary
  - (iii) Biosphere reserve
  - (iv) All of these

[P.T.O.]

4

15204

- (f) Ozone depletion is caused by
- (i) Nitrous oxide
  - (ii) Carbon oxide
  - (iii) CFCs
  - (iv) Methane
- (g) When cold air is trapped below the warm layer of air then that condition is called as
- (i) Inversion
  - (ii) Smog
  - (iii) Adiabatic
  - (iv) Super adiabatic
- (h) In India which state has severely contaminated groundwater by arsenic?
- (i) Maharashtra
  - (ii) Madhya Pradesh
  - (iii) West Bengal
  - (iv) Delhi
- (i) Population growth is
- (i) Linear
  - (ii) Exponential
  - (iii) Very small
  - (iv) Constant
- (j) The chemicals that affect genetic materials (DNA) in cells, are known as
- (i) Carcinogenic
  - (ii) Mutagenic
  - (iii) Teratogenic
  - (iv) Neurotoxins

(2×10=20)