

**B.Sc. FOOD SCIENCE AND TECHNOLOGY  
SECOND SEMESTER  
ENVIRONMENTAL STUDIES  
BFST-205**

Duration : 3 hrs.

Full Marks: 70

**[ PART-A: Objective ]**

Time : 20 min.

Marks : 20

*Choose the correct answer from the following:*

1X20=20

1. What is the scope of environmental studies?
  - a. Social awareness
  - b. Understand real life situation
  - c. Sustainable development
  - d. All of above
2. Due to ----- nature, environmental studies is related to others disciplines.
  - a. conservation specific
  - b. interdisciplinary
  - c. multidisciplinary
  - d. both interdisciplinary and multidisciplinary
3. What is the present human population in the world?
  - a. 7.9 billion
  - b. 796 billion
  - c. 600 crore
  - d. 150 million
4. How much percentage of geographical area of a country should be under forest?
  - a. 25
  - b. 30
  - c. 33
  - d. 50
5. Narmada Bachao Andolan is associated with the construction of
  - a. Damodar Dam
  - b. Koyna Dam
  - c. Gandhi Sagar Dam
  - d. Sardar Sarovar Dam
6. Amount of carbon dioxide present in atmosphere is
  - a. 0.4%
  - b. 0.04%
  - c. 0.004%
  - d. 4%
7. The source of energy in an ecosystem is
  - a. Sunlight
  - b. Decomposition of plant body by bacteria
  - c. Fermentation by sugar
  - d. None of the above

8. Which of the following is not a greenhouse gas?
- Carbon monoxide
  - Water vapour
  - Carbon dioxide
  - None of above
9. The part of earth and atmosphere where organisms live is called
- Biotic
  - Lithosphere
  - Biosphere
  - None of above
10. One big tree with many birds and insects in a large open area
- can be an example of an ecosystem
  - can't be an ecosystem due to absence of other animals
  - can't be an ecosystem due to absence of many trees
  - Both (b) and (c) are correct
11. In terms of food chain and food web, conditions for more stable ecosystem are
- Short food chain, simple food web
  - Long food chain, simple food web
  - Short food chain, complex food web
  - Long food chain, complex food web
12. Which ecological pyramid is/are always upright in nature?
- Pyramid of energy
  - Pyramid of biomass
  - Pyramid of number
  - All of above
13. Thermal pollution is related to
- Air
  - Water
  - Soil
  - Noise
14. Final stage in ecological succession is
- Death
  - Establishment
  - Climax
  - All of above
15. The average surface temperature of the Earth is about ---°C.
- 15
  - 24
  - 33
  - 18
16. Which act was enacted to safeguard environment by Government of India after Bhopal Gas tragedy?
- Water (Prevention and Control of Pollution) Act 1974
  - Air (Prevention and Control of Pollution) Act 1981
  - Environment (Protection) Act 1986
  - All of above
17. Rain water is slightly acidic in nature. It is due to
- Acid rain
  - Carbon dioxide gas
  - Carbon monoxide gas
  - Oxides of sulphur and nitrogen
18. The highest temperature is recorded
- at midday
  - in the afternoon
  - in the late evening
  - whole day



19. Ozone depletion is caused due to increase of

- a. Water vapor
- b. Carbon dioxide
- c. Chlorofluorocarbon
- d. All of above

20. Human are ----- in an ecosystem

- a. owner
- b. producer
- c. consumer
- d. All of above

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**( PART-B : Descriptive )**

Time: 2 HRS 40 MINS

Marks : 50

[ Answer question no.(1) & any four (4) from the rest ]

1. What do you mean by air pollution? Discuss causes and consequences of air pollution. 2+3+5=10
  
2. Write on genetic, species and ecosystem diversity. What is biodiversity hotspot? 8+2=10
  
3. What is an ecosystem? Discuss structure and functions of an ecosystem. 2+4+4=10
  
4. 'India is a mega diversity nation'. Justify the statement with reference to rich biodiversity of India. 10
  
5. Write short notes on : 5+5=10
  - (a) Acid rain
  - (b) Point source and non point source of pollution
  
6. Write about duties and responsibilities of students in environmental protection, resource conservation and pollution control. 10
  
7. What is a food chain? Categorize it with suitable instances. 4+6=10
  
8. How solar energy could be harnessed? State the disadvantages associated with solar energy. 7+3=10

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