

**Professional Course Examination, May 2024**

( CBCS )

( 4th Semester )

**BACHELOR OF COMPUTER APPLICATIONS**

( **Environment and Ecology** )

*Full Marks : 75*

*Time : 3 hours*

*The figures in the margin indicate full marks for the questions*

( **PART : A—OBJECTIVE** )

( *Marks : 25* )

SECTION—I

( *Marks : 15* )

**A.** Tick (✓) the correct answer in the brackets provided :

1×10=10

1. The primary consumers are

(a) Herbivores ( )

(b) Carnivores ( )

(c) Omnivores ( )

(d) Producers ( )

2. The functional unit of environment is

(a) carbon ( )

(b) nitrogen ( )

(c) oxygen ( )

(d) ecosystem ( )

3. Which of the following is the example of non-polluting renewable type of energy?

(a) Wind energy ( )

(b) Tidal energy ( )

(c) Solar energy ( )

(d) All of the above ( )

4. The group which consists of non-renewable organic resources is

(a) wood, water and natural pastures ( )

(b) natural gas, oil and coal ( )

(c) sand, air and clay ( )

(d) water, air and minerals ( )

5. \_\_\_\_\_ is one of the most prevalent hotspots of biodiversity in India.

(a) Himalayan region ( )

(b) Indo-Burma region ( )

(c) Western Ghats ( )

(d) Sundaland ( )

6. Jim Corbett National Park is located in

(a) Karnataka ( )

(b) Himachal Pradesh ( )

(c) Uttarakhand ( )

(d) Rajasthan ( )

7. Nitrogen oxide affects human health by

(a) causing irritation ( )

(b) asthma ( )

(c) the ability of blood to transport oxygen ( )

(d) fever ( )

8. Greenhouse gas is

(a) nitrogen ( )

(b) oxygen ( )

(c) carbon dioxide ( )

(d) methane ( )

9. Silent Valley Movement was introduced in

(a) 1973 ( )

(b) 1978 ( )

(c) 1980 ( )

(d) 1975 ( )

10. Ozone layer occurs in

(a) ionosphere ( )

(b) troposphere ( )

(c) stratosphere ( )

(d) hydrosphere ( )

**B.** Indicate whether the following statements are *True (T)* or *False (F)* by putting a Tick (✓) mark in the brackets provided : 1×5=5

1. The Environment Studies is a multi-disciplinary science.

( T / F )

2. Solar is a non-renewable energy resource.

( T / F )

3. Seed bank is ex-situ conservation.

( T / F )

4. Decibel unit is used to measure the intensity of noise.

( T / F )

5. Sustainable Development—Goal No 4 is 'no poverty'.

( T / F )

SECTION—II

( Marks : 10 )

C. Answer the following questions in short :

2×5=10

1. (a) What are the levels of ecology?

**OR**

- (b) What are the functions of an ecosystem?

2. (a) How does human being depend on natural resources?

**OR**

- (b) What are the uses of natural resources?

3. (a) What are the importance of biodiversity conservation?

**OR**

- (b) What are the criteria for determining biodiversity hotspot?

4. (a) What are the uses of clean energy resources?

**OR**

- (b) Define environmental pollution.

5. (a) What are the three primary objectives of Sustainable Development Goals (SDGs)?

**OR**

- (b) What are the aims and objectives of Association for Environmental Preservation (ASEP)?

**( PART : B—DESCRIPTIVE )**

( Marks : 50 )

**D. Answer the following questions :**

10×5=50

1. (a) Define ecology. Explain the different types of ecosystem.

2+8=10

**OR**

- (b) Describe the importance of environmental studies.

10

2. (a) Explain the solutions for depletion of natural resources.

10

**OR**

- (b) Differentiate between renewable and non-renewable resources.

10

3. (a) Discuss the effects of biodiversity loss.

10

**OR**

- (b) Describe the different types of biodiversity.

10

4. (a) What is soil pollution? What are the causes and effects of soil pollution?

2+8=10

**OR**

- (b) (i) What are the sources of noise pollution?

5

- (ii) How do you measure noise pollution? Explain.

5

5. (a) Illustrate the major environmental movements in India.

10

**OR**

- (b) Explain the objectives and principles of environmental education.

10

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