

Professional Course Exam., 2020  
( 4th Semester )

**BACHELOR OF COMPUTER APPLICATIONS**

**( Environment and Ecology )**

Full Marks : 75

Time : 3 hours

**( PART : A—OBJECTIVE )**

( Marks : 25 )

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

**SECTION—A**

( Marks : 15 )

Tick (✓) the correct answer in the brackets provided : 1×10=10

1. Who wrote the *Diversity of Life*, which was awarded a prize for the best book published on environmental issues?

(a) Charles Darwin ( )

(b) E. O. Wilson ( )

(c) Ralph Emerson ( )

(d) John Muir ( )

2. Which one is not belong to 'human development index'?
- (a) Increased longevity ( )  
(b) Increase in knowledge ( )  
(c) Stabilized population ( )  
(d) Enhancement of income ( )
3. In an ecosystem, the herbivorous animals that eat plants are at the \_\_\_\_\_ trophic level.
- (a) first ( ) (b) second ( )  
(c) third ( ) (d) fourth ( )
4. Some species of plants and animals are extremely rare and may occur only at a few locations. In this location they are said to be
- (a) endemic ( ) (b) endangered ( )  
(c) extinction ( ) (d) threat ( )
5. The Asiatic lion is now found only in the Gir forests of
- (a) Gujarat ( ) (b) Rajasthan ( )  
(c) Assam ( ) (d) West Bengal ( )
6. At present conservation, scientists have been able to identify and categorise a species on earth is about
- (a) 1.2 million ( ) (b) 1.5 million ( )  
(c) 1.8 million ( ) (d) 2.2 million ( )
7. The greatest industrial disaster leading to serious air pollution took place in Bhopal on December 3rd
- (a) 1980 ( ) (b) 1984 ( )  
(c) 1986 ( ) (d) 1999 ( )

8. Persistent pesticides banned in India for agricultural use is
- (a) DDT ( ) (b) DOP ( )  
 (c) DAP ( ) (d) KOP ( )
9. The average surface temperature of the earth is about
- (a) 25 °C ( ) (b) 20 °C ( )  
 (c) 15 °C ( ) (d) 10 °C ( )
10. Who believed that humans were 'trustees of the lower animal kingdom'?
- (a) Jawaharlal Nehru ( ) (b) Mahatma Gandhi ( )  
 (c) Karl Marx ( ) (d) Abraham Lincoln ( )

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

1. *The Book of Indian Birds* is written by Salim Ali. ( T / F )
2. Mangrove forests grow along the foothills. ( T / F )
3. Orchid is the largest group of flowering plants in the world. ( T / F )
4. World Environment Day is 5th June. ( T / F )
5. The world's most populous regions are in temperate region. ( T / F )

SECTION—B

( Marks : 10 )

Write notes on the following :

2×5=10

1. Renewable energy
2. Carbon cycle
3. Hotspots of biodiversity
4. Mitigation measures of earthquakes
5. Global warming

( PART : B—DESCRIPTIVE )

( Marks : 50 )

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

1. (a) What is environment? Explain renewable and non-renewable natural resources. 2+8=10

OR

- (b) Write different kinds of natural resources. Enumerate land degradation and soil erosion. 4+6=10

2. (a) What is ecosystem? Discuss the structure and functions of ecosystems. 3+7=10

OR

- (b) What are decomposers? Define food chain and food web. 3+7=10

3. (a) What is biodiversity? What are the threats to biodiversity? 3+7=10

OR

- (b) What is a biotic community? Explain its structure and functions. 3+7=10

4. (a) What is air pollution? Discuss its causes and various ways of control of air pollution. 3+7=10

**OR**

(b) What is solid waste? Discuss the measures to prevent urban and industrial waste. 3+7=10

5. (a) What is sustainable development? Explain the effect of population on sustainable development. 3+7=10

**OR**

(b) What are the uses of water harvesting? Write a detailed note on rain water harvesting. 4+6=10

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