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IV/BCA/401

2017  
(4th Semester)

**BACHELOR OF COMPUTER APPLICATIONS**

Paper No. : BCA-401

**( Environment and Ecology )**

( PART : A—OBJECTIVE )

( Marks : 25 )

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

SECTION—I

( Marks : 15 )

1. Choose the correct alternative by putting a Tick (✓) mark in the brackets provided :  $1 \times 10 = 10$

(a) 5th June is observed as

- (i) World Forest Day ( )
- (ii) World Environmental Day (✓)
- (iii) World Wildlife Day ( )
- (iv) World Population Day ( )

( 2 )

(b) Red Data Book provides data on

- (i) red-flower plants ( )
- (ii) red-colored fishes ( )
- (iii) list of plants and animals ( )
- (iv) endangered plants and animals (✓)

(c) The organisms which feed on dead organism, waste of living organisms are called

- (i) chemotrophs ( )
- (ii) carnivores ( )
- (iii) detritivores ( )
- (iv) decomposers (✓)

(d) Dissolved oxygen in water comes from

- (i) photosynthesis of aquatic plants ( )
- (ii) atmosphere ( )
- (iii) None of the above ( )
- (iv) Both of the above (✓)

(e) The present world population has just crossed

(i) 5 billion ( )

(ii) 6 billion ( )

(iii) 7 billion (✓)

(iv) 8 billion ( )

(f) During photosynthesis, trees produce

(i) oxygen (✓)

(ii) carbon dioxide ( )

(iii) nitrogen ( )

(iv) carbon monoxide ( )

(g) The progressive accumulation of some non-biodegradable chemicals through the food chain is known as

(i) ecological balance ( )

(ii) biological magnification (✓)

(iii) trophic structure ( )

(iv) biodegradation ( )

( 4 )

(h) Illegal killing of prohibited endangered animals is called

- (i) poaching ( ✓ )
- (ii) habitat loss ( )
- (iii) conflicts ( )
- (iv) All of the above ( )

(i) Industrial waste may contain toxic

- (i) chemicals ( ✓ )
- (ii) phenols ( )
- (iii) acids ( )
- (iv) All of the above ( )

(j) Which State in India has the lowest birthrate?

- (i) Kerala ( ✓ )
- (ii) Bihar ( )
- (iii) Jammu and Kashmir ( )
- (iv) Himachal Pradesh ( )

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2. State wh  
False (F)

(a) Surf  
grou

(b) Pyra

(c) Maxi  
rain

(d) Grou

(e) Total  
high

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( 5 )

animals

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

(a) Surface water is more in quantity than the groundwater.

( T / F )

(b) Pyramid of energy is always upright.

( T / F )

(c) Maximum global biodiversity is found in tropical rain forest.

( T / F )

(d) Groundwater is free of contamination.

( T / F )

(e) Total fertility rate and infant mortality rate are higher in developed countries.

( T / F )

arthrate?

( 6 )

SECTION—II

( Marks : 10 )

3. Answer the following questions : 2×5=10

(a) What is desertification?

( 7 )

(b) Explain food chain.

2×5=10

(c) Explain endemic species.

( 8 )

(d) What do you mean by E-waste?

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(e) Write a note on ozone layer depletion.

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( 4th Semester )

**BACHELOR OF COMPUTER APPLICATIONS**

Paper No. : BCA-401

**( Environment and Ecology )**

Full Marks : 75

Time : 3 hours

**( PART : B—DESCRIPTIVE )**

( Marks : 50 )

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

1. (a) What are forest resources? Discuss the major causes of deforestation. 3+7=10

Or

- (b) Explain land resources. Define soil erosion. Write the various practices for preventing soil erosion. 3+3+4=10

2. (a) Explain ecosystem. What do you understand by the terms producers, consumers and decomposers? Give examples. 3+7=10

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( Turn Over )

( 2 )

Or

(b) What are ecological pyramids? Discuss energy flow and food chain in an ecosystem. 3+7=10

3. (a) Define biodiversity. Explain hot spots of biodiversity of India. 3+7=10

Or

(b) What are endangered species? Explain *in situ* and *ex situ* conservation of biodiversity. 3+7=10

4. (a) What is air pollution? Explain the sources and effects of noise pollution. 3+7=10

Or

(b) What is disaster management? Discuss the problem and control measures of landslides. 3+7=10

5. (a) Define sustainable development. What is rainwater harvesting? Explain the importance of rainwater harvesting. 2+2+6=10

Or

(b) What is population explosion? Explain greenhouse effect and global warming. 3+7=10

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