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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 (✓)

(3)

(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 ()

2. State wh
False (F)

(a) Surf
grou

(b) Pyra

(c) Maxi
rain

(d) Grou

(e) Total
high

(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)

(6)

SECTION—II

(Marks : 10)

3. Answer the following questions : $2 \times 5 = 10$

(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?

IV/BCA/401/466

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G7-200/466

(9)

(e) Write a note on ozone layer depletion.

G7-200/466

IV/BCA/401

32 45
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2 0 1 7
(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

G7/466a

(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
