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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

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

Subject Code : IV/BCA/401

Booklet No. **A**

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Date Stamp

To be filled in by the Candidate

DEGREE 4th Semester
(Arts / Science / Commerce /
.....) Exam., **2017**
Subject
Paper

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To be filled in by the Candidate

DEGREE 4th Semester
(Arts / Science / Commerce /
.....) Exam., **2017**

Roll No.

Regn. No.

Subject

Paper

Descriptive Type

Booklet No. B

INSTRUCTIONS TO CANDIDATES

- 1. The Booklet No. of this script should be quoted in the answer script meant for descriptive type questions and vice versa.**
- 2. This paper should be ANSWERED FIRST and submitted within 1 (one) Hour of the commencement of the Examination.**
- 3. While answering the questions of this booklet, any cutting, erasing, overwriting or furnishing more than one answer is prohibited. Any rough work, if required, should be done only on the main Answer Book. Instructions given in each question should be followed for answering that question only.**

Signature of
Scrutiniser(s)

Signature of
Examiner(s)

Signature of
Invigilator(s)

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2 0 1 7
(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 ()

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(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 ()

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(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 ()

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(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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(5)

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)

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(6)

SECTION—II

(Marks : 10)

3. Answer the following questions :

2×5=10

(a) What is desertification?

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(7)

(b) Explain food chain.

(c) Explain endemic species.

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(8)

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

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(9)

(e) Write a note on ozone layer depletion.

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