

VI/BCA/601

2013

(JUNE)

BACHELOR OF COMPUTER APPLICATIONS

(ENVIRONMENT AND ECOLOGY)

Paper No. 601

Full Mark: 75

Time: 3 hours

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

PART -A : OBJECTIVE

(Marks : 25)

SECTION - I

I. Tick (✓) the correct answer: (1X10=10)

i) Ozone layer acts as a natural sunscreen which protects life on this earth against

- | | | |
|----|------------|---------|
| a) | Gamma rays | () |
| b) | Alpha rays | () |
| c) | Beta rays | () |
| d) | UV rays | () |

ii) Chernobyl disaster is associated with

- | | | |
|----|------------------|---------|
| a) | Nuclear accident | () |
| b) | Landslide | () |
| c) | Earthquake | () |
| d) | Acid rain | () |

iii) The present world population has just crossed

- | | | |
|----|-----------|---------|
| a) | 5 billion | () |
| b) | 6 billion | () |
| c) | 7 billion | () |
| d) | 8 billion | () |

iv) Which state of the following has the highest population size in India

- | | | |
|----|----------------|---------|
| a) | UP | () |
| b) | Bihar | () |
| c) | Tamil Nadu | () |
| d) | Andhra Pradesh | () |

v) World population day is on

- | | | |
|----|------------------------|---------|
| a) | 11 th July | () |
| b) | 5 th June | () |
| c) | 29 th April | () |
| d) | 23 rd March | () |

vi) Environment is derived from the French word

- | | | |
|----|---------------|---------|
| a) | Environner | () |
| b) | Environ | () |
| c) | Enviromeur | () |
| d) | None of these | () |

vii) Trophic levels are formed by

- a) Only animals ()
- b) Only trees ()
- c) Organisms linked in food chains ()
- d) None of these ()

viii) The organisms which feed on dead organisms, wastes of living organisms are called,

- a) Chemotrophs ()
- b) Carnivores ()
- c) Detritivores ()
- d) Decomposers ()

ix) In food chains, the largest population is that of

- a) Producers ()
- b) Decomposers ()
- c) Secondary Consumers ()
- d) Primary Consumers ()

x) Which of the following is responsible for desertification?

- a) Deforestation ()
- b) Overgrazing ()
- c) Mining ()
- d) All of these ()

II. State whether True (T) or False (F).

(5X1=5)

- a) The first biosphere reserve to be established in 1986 in India was in the Sunderbans. ()
- b) Red Data Book includes the list of endangered species. ()
- c) Flooding in North Eastern Regions in India is mainly due to poor drainage facilities, heavy rains and Brahmaputra river. ()
- d) Coal is a renewable resource. ()
- e) Forest prevent soil erosion by binding soil particles in their buds. ()

=5)

SECTION II

III. Answer the following questions.

(5X2=10)

a) What is EL-Nino?

- b) Write a brief note on E-waste?

- c) Write a brief note on Malthusian doctrine.

d) What is afforestation?

- e) Explain in brief watershed management.

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**PART -B : DESCRIPTIVE
(Marks : 50)**

Answer the following questions.

1. a) What do you understand by the term environment? Write note on eco-system (10)

OR

- b) Define ecology. Explain man's relationship with the environment. (10)

2. a) Explain energy flow in eco-system. (10)

OR

- b) Define food chain and food web in eco-system. (10)

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3. a) What is population growth? Explain concept of carrying capacity of environment. (10)

OR

- b) What is population density? Write a note on demographic transition. (10)

4. a) What do you mean by global warming? Explain green house gases. (10)

OR

- b) What is deforestation? Explain the major causes of deforestation. (10)

5. a) What is Bio-diversity? Mention the values of bio-diversity. (10)

OR

- b) Define Bishnio efforts. Write a note on chipko movement. (5)

- c) What do you mean by Natural resources. Write notes on shortages and over consumption of resources. (5)

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