

(b) Which of the following is normally not an important atmospheric pollutant?

- (i) CO ()
- (ii) SO₂ ()
- (iii) CO₂ ()
- (iv) Hydrocarbons ()

(c) The unfavourable alteration of environment due to human activities is termed as

- (i) ecological disturbance ()
- (ii) catastrophe ()
- (iii) ecological degradation ()
- (iv) pollution ()

(d) Hot spots are the regions of

- (i) high rarity ()
- (ii) high endemism ()
- (iii) critically endangered population ()
- (iv) high diversity ()

(e) A population is a group of

- (i) individuals in a species ()
- (ii) species in a community ()
- (iii) communities in an ecosystem ()
- (iv) individuals in a family ()

- (f) ENSO occurs across the tropical Pacific for a period of
- (i) 3-year cycle ()
 - (ii) 4-year cycle ()
 - (iii) 5-year cycle ()
 - (iv) 6-year cycle ()
- (g) Air pollutants mixing up with rain can cause
- (i) high acidity ()
 - (ii) ozone depletion ()
 - (iii) acid rain ()
 - (iv) All of the above ()
- (h) 5th June is observed as
- (i) World Forest Day ()
 - (ii) World Environment Day ()
 - (iii) World Wildlife Day ()
 - (iv) World Population Day ()
- (i) Red Data Book provides data on
- (i) red-flowered plants ()
 - (ii) red-colored fishes ()
 - (iii) lists of plants and animals ()
 - (iv) endangered plants and animals ()

(4)

(j) Brain development of children is affected by

- (i) lead (Pb) ()
- (ii) cadmium (Cd) ()
- (iii) barium (Ba) ()
- (iv) chromium (Cr) ()

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

(a) Water and mineral nutrients come from rocks.

(T / F)

(b) Watershed is geohydrological unit.

(T / F)

(c) Desertification is the degradation of land in any wetland.

(T / F)

(d) In level four of trophic levels, carnivores which eat other carnivores are called tertiary consumers.

(T / F)

(e) India ranks ten among the plant-rich countries of the world.

(T / F)

(5)

3. Write on/Answer the following : $2 \times 5 = 10$

(a) What is ecosystem?

5

Q1- (b) What do you mean by a community?

- (i) ...
- (ii) ...
- (iii) ...
- (iv) ...

2. State whether the following statements are True (T) or False (F) by putting a tick (✓) or cross (✗) in the brackets.

- (i) ...
- (ii) ...

3. ...

4. ...

5. ...

(7)

(c) Concept of watershed management

(d) E-waste

(9)

(e) Endangered species

G15-230/398

VI/BCA/601

VI/BCA/601

2015

(6th Semester)

BACHELOR OF COMPUTER APPLICATIONS

Paper No. : BCA-601

(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) Describe the structure of earth's atmosphere. Which of the different layers of atmosphere have been chemically altered by anthropogenic activity? 6+2-8

Or

- (b) What do you mean by the term 'ecology'? Discuss the need for environmental education. 2+6-8

G15-230/398a

(Turn Over)

2. (a) Define food chain and energy flow in ecosystem. 8

Or

- (b) What do you understand by ecosystem? Discuss the structure of a complete self-sustaining ecosystem. 2+6=8

3. (a) Write a note on Malthusian doctrine and the concept of a stable population. 4+4=8

Or

- (b) Discuss the impact of population on availability of food, water and natural resources. 8

4. (a) What do you mean by global warming? What are the biological implications of global warming? 3+7=10

Or

- (b) What is meant by greenhouse effect? Discuss briefly the consequences of increased emission of greenhouse gases in the atmosphere. 3+7=10

5. (a) Define Bishnoi efforts. Write a note on Chipko Movement. 4+4=8

Or

- (b) What is sustainable development? How will you make development sustainable? 4+4=8

(3)

6. (a) Write a note on flood problems in North-East India. 8

Or

(b) Write a note on the type of forest in North-East.
