# 2014

( 6th Semester )

## BACHELOR OF COMPUTER APPLICATIONS

Course No. : 601

### ( Environment and Ecology )

( PART : A—OBJECTIVE )

( Marks : 25 )

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

1. Put a Tick (✓) mark against the correct answer in the brackets provided :  1×10=10

(a) Abiotic environment consists of

(i) living things  ( )

(ii) non-living things  ( )

(iii) solar system  ( )

(iv) None of the above  ( )

(b) Which of the following is a correct pair?

   (i) World Forest Day—March 22    (   )

   (ii) Earth Day—April 22    (   )

   (iii) World Ocean Day—June 5    (   )

   (iv) World Environment Day—June 8    (   )

(c) World Summit 2002 was held at

   (i) New Delhi    (   )

   (ii) Moscow    (   )

   (iii) Johannesburg    (   )

   (iv) Rio de Janeiro    (   )

(d) A species is said to be extinct, when it is not seen in the wild at a stretch of

   (i) 200 years    (   )

   (ii) 100 years    (   )

   (iii) 75 years    (   )

   (iv) 50 years    (   )

(e) Ozone layer is formed in

   (i) Stratosphere    (   )

   (ii) Mesosphere    (   )

   (iii) Troposphere    (   )

   (iv) None of the above    (   )

(f) The degree to which species composition changes along an environment gradient is called

   (i)  alpha diversity    (   )

   (ii)  beta diversity    (   )

   (iii)  gamma diversity    (   )

   (iv)  None of the above    (   )

(g) Chernobyl Disaster occurred on

   (i)  1982    (   )

   (ii)  1984    (   )

   (iii)  1986    (   )

   (iv)  1988    (   )

(h) Noise pollution is a value greater than

   (i)  70 dB    (   )

   (ii)  75 dB    (   )

   (iii)  80 dB    (   )

   (iv)  85 dB    (   )

(i) The present Indian population has just crossed

   (i)  100 million    (   )

   (ii)  500 million    (   )

   (iii)  1 billion    (   )

   (iv)  2 billion    (   )

(j) "Meeting the needs of the present without compromising the ability of future generations to meet their own needs" is the definition of

    (i) ecosystem    ( )

    (ii) biosphere    ( )

    (iii) EIA    ( )

    (iv) sustainable development    ( )

2. State whether the following statements are *True (T)* or *False (F)* :    1×5=5

    (a) An ecosystem is a group of biotic communities interacting with one another but without exchanging energy and matter with the non-living environment.

                                                         ( )

    (b) Energy flows in a one-way direction.

                                                         ( )

    (c) Total fertility rate and infant mortality rate are lower in developing countries.

                                                         ( )

    (d) Greenhouse effect causes soil erosion.

                                                         ( )

    (e) Flooding in North-East is due to poor drainage facilities.

                                                    ( )

**3.** Write on/Answer the following questions :          2×5=10

 (a)  What is El Nino?

(b) Effects of noise pollution

(c) Write a brief note on watershed management.

(d) Endemic species

(e) Effects of toxicants

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# VI/BCA/601

# 2014

( 6th Semester )

## BACHELOR OF COMPUTER APPLICATIONS

### Course No. : 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)* What do you understand by the term environment? Discuss the scope of environment.  2+6=8

Or

   *(b)* Define ecology. Discuss the structural features of ecosystem.  2+6=8

2. *(a)* What are the two types of resource? Describe briefly the conservation of resources and alternative strategies.  2+6=8

*( Turn Over )*

*Or*

(b) What do you mean by shifting cultivation? Discuss its impact on land degradation. 3+5=8

3. (a) Explain food chain and food web of an ecosystem. 8

*Or*

(b) What do you mean by community? Explain the transformation of energy in ecosystem. 2+6=8

4. (a) Write a note on demographic transition or Malthusian doctrine. 8

*Or*

(b) What is a population growth in recent times? Explain population growth impact on global environment. 3+5=8

5. (a) What is biodiversity? Mention significances and benefits of biodiversity. 2+6=8

*Or*

(b) Write a note on Narmada debate. 8

**6.** *(a)* What do you mean by greenhouse effect? Discuss briefly the consequence of increase emission of greenhouse gases.

3+7=10

*Or*

*(b)* What do you mean by deforestation? Briefly describe the consequence of deforestation.

3+7=10

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