

2021

Time : 3 hours

Full Marks : 60

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer any four questions in which

Q. No. 1 is compulsory.

1. Choose the correct answer of the following :  
 $1\frac{1}{2} \times 10 = 15$

(a) Increased levels of pollution results in :

- 6
- (i) Soil erosion
  - (ii) Global warming
  - (iii) Climate change
  - (iv) All of these

(b) Interlocking of two or more types of food chains at different trophics levels is called :

- (i) Food chain
- (ii) Food web

(iii) Ecological pyramid

(iv) Succession

(c) The sampling unit used for quantitative study of plant communities is called :

(i) Transect

(ii) Quadrat

(iii) Strip

(iv) None of these

(d) The ability of individuals in the population to produce new individuals is called :

(i) Dispersion

(ii) Mortality

(iii) Natality

(iv) Migration

(e) The major reason for extinction of species is :

(i) Forest fire

(ii) Hunting

(iii) Habitat destruction

(iv) Their use as food

(f) Red Data Book is famous for :

(i) Endangered plants and animals

- ✓(ii) Extinct plants and animals
- (iii) Living plants and animals
- (iv) None of these

(g) When organic matter present in the sanitary landfill decomposes, it generates :

- ✓(i) Methane                      (ii) Nitrogen
- (iii) Hydrogen                  (iv) All of these

(h) Who is the inspiration behind the concept of "Swachh Bharat Abhiyan" ?

- ✓(i) Mahatma Gandhi
- (ii) Jawaharlal Nehru
- (iii) Sardar Patel
- (iv) Morarji Desai

(i) Which of the following is not a green house gas ?

- ✓(i) Water vapour
- (ii) Carbon dioxide
- (iii) Methane
- (iv) Ethane

(j) The El - Nino Phenomenon occurs in :

- ✓(i) Atlantic Ocean      (ii) Pacific Ocean
- (iii) Indian Ocean      (iv) Arctic Ocean

2. Write short notes on any **three** of the following :  
5×3 = 15

- (a) Global Warming
- ✓(b) Swachh Bharat Abhiyan
- ✓(c) Abiotic Components of ecosystem
- (d) BOD and COD
- (e) Legal Provisions for Waste Management

- 3. What are the various components of an Ecosystem ? Describe a pond ecosystem. 15
- 4. What do you understand by Ecological Succession ? Describe Xerosere. 15
- 5. Discuss the laws that govern the flow of energy in an ecosystem. 15
- ✓6. What is ecological community ? What are its characteristics ? 15
- 7. What is climate change ? What are its various consequences ? 15
- 8. Describe the various methods used for the management and safe disposal of waste water. 15

