



QUESTION PAPER-2022
Foundation Course in Environmental Studies
(For Arts Students)

SECTION—A

Choose the correct answer :

1×15=15

- Q.1. Who coined the term 'ecology'?
- (a) A. G. Tansley (b) Charles Elton
(c) Ernst Haeckel (d) G. F. Morozov
- Q.2. The development and evolution of ecosystems is commonly referred to as
- (a) ecological succession (b) ecotone and edge effect
(c) ecosystem dynamics (d) systems ecology
- Q.3. The percentage of freshwater of the total free water of the biosphere is
- (a) 8% (b) 10% (c) 15% (d) 3%
- Q.4. Presently the percentage of total geographical area of India under forest cover is
- (a) 16.83% (b) 24.62% (c) 30.08% (d) 19.93%
- Q.5. Who put forward the concept of 'biodiversity hotspot'?
- (a) Norman Myers (b) Charles Darwin
(c) Hugo de Vries (d) T. H. Morgan
- Q.6. The North-Eastern region is situated at the confluence of two biodiversity hotspots. They are
- (a) Himalaya and Andaman (b) Himalaya and Indo-Burma
(c) Himalaya and Bangladesh (d) Himalaya and Bay of Bengal
- Q.7. WHO's prescribed level of optimum noise during day hours is
- (a) 45 dB (b) 35 dB (c) 50 dB (d) 28 dB
- Q.8. The Air (Prevention and Control of Pollution) Act was enacted in the year
- (a) 1991 (b) 2003 (c) 1979 (d) 1981
- Q.9. The incident of earthquake may occur due to
- (a) volcanic activity (b) plate tectonic movements
(c) high explosions (d) All of the above
- Q.10. Silent Valley Movement took place in
- (a) Kerala (b) Karnataka
(c) Madhya Pradesh (d) Rajasthan



- Q.11.** For which of the following reasons, it is necessary to secure a large area forest?
(a) Absorption of carbon dioxide
(b) Conservation of wildlife
(c) More rain
(d) Ecological balance
- Q.12.** The largest ecosystem of earth is
(a) biome
(b) hydrosphere
(c) lithosphere
(d) biosphere
- Q.13.** What is the ecological system integrating all living beings and their relationship?
(a) Total wildlife
(b) Biosphere
(c) Lithosphere
(d) Hydrosphere
- Q.14.** Global warming is expected to result in
(a) increase in sea level
(b) change in crop pattern
(c) change in coastal line
(d) All of the above
- Q.15.** What is the cause of greenhouse effect?
(a) Nitrogen
(b) Carbon dioxide
(c) Carbon monoxide
(d) Nitrogen dioxide
- Q.16.** Which one of the following ecosystems covers the largest area of the earth's surface?
(a) Desert ecosystem
(b) Grassland ecosystem
(c) Mountain ecosystem
(d) Marine ecosystem
- Q.17.** The ozone hole over Antarctica was discovered in
(a) 1975
(b) 1985
(c) 1978
(d) 1987
- Q.18.** Which of the following has maximum biodiversity?
(a) Desert
(b) Polar region
(c) River
(d) Tropical region
- Q.19.** What is the biggest source of pollution in the world?
(a) Sewage and garbage
(b) Automobile laxity
(c) Herbicide and insecticide
(d) Industrial tributaries
- Q.20.** The cause of reduction of forest coverage is
(a) agriculture
(b) manufacturing industry
(c) rising population
(d) tourism and pilgrimage

SECTION-B

Answer any five questions :

2×5=10

- Q.21.** What is meant by food chain? What are its different types?
Q.22. Define biogeochemical cycle. Mention its category.

- Q.23.** Enumerate the environmental impact of mining operations.
- Q.24.** What is meant by non-conventional energy sources? Explain briefly with suitable examples.
- Q.25.** Write four important values of biodiversity.
- Q.26.** Write a note on rising trend of man-animal conflict in context to N-E Region.
- Q.27.** Write a brief note on greenhouse gases (GHGs).
- Q.28.** What is meant by sustainable development? Elucidate.
- Q.29.** Mention the natural and man-made causes of landslides.
- Q.30.** Write a note on Chipko Movement.

SECTION-C

Answer any five questions :

5×5=25

- Q.31.** Discuss the basic operations and components of ecosystem.
- Q.32.** What is ecological pyramid? Explain its patterns.
- Q.33.** Enlist the uses of forest resources and the role of forest in environmental conservation.
- Q.34.** What are the causes of flood and its impacts?
- Q.35.** What is endemic species? Discuss biodiversity of North-East region with special reference to endemism.
- Q.36.** Discuss *in-situ* and *ex-situ* methods of conservation of biodiversity citing suitable examples.
- Q.37.** Briefly discuss the management of solid wastes. Add a note on ozone layer depletion.
- Q.38.** In which year was the Forest Conservation Act enacted? Write the key features and provisions of penalties in this Act.
- Q.39.** What is NDMA? Discuss necessary steps to be taken during disaster from the experience of recent flood in Barak Valley.
- Q.40.** What is meant by environmental ethics? Elucidate. Add a note on the Bishnois of Rajasthan.