Ba/Bc/Bs/AECC–2

2024

(CBCS)

(2nd Semester)

ENVIRONMENTAL STUDIES

Paper : AECC–2 : EVS

Full Marks : 37½ *Pass Marks* : 40%

Time : 2 hours

The figures in the margin indicate full marks for the questions

SECTION—A

(Objective Type)

Put a Tick ☑ mark against the correct answer in the box provided : ½×15=7½

1. World Population Day is celebrated on

(a) March 21 ☐

(b) April 22 ☐

(c) July 11 ☐

(d) September 28 ☐

2. Environment friendly products are given ISO

(a) 14000 ☐

(b) 14001 ☐

(c) 14011 ☐

(d) 14010 ☐

3. The organisms which feed on dead organisms, wastes of living organisms are called

(a) chemotrophs ☐

(b) carnivores ☐

(c) detritivores ☐

(d) decomposers ☐

4. The progressive accumulation of some non-biodegradable chemicals through the food chain is known as

(a) ecological balance ☐

(b) biological magnification ☐

(c) trophic structure ☐

(d) biodegradation ☐

5. The type of succession occurring on a bare rock is called

(a) halosere ☐

(b) lithosere ☐

(c) hydrosere ☐

(d) None of the above ☐

6. Biodiversity hotspots are the regions of high

(a) stationary population of common species ☐

(b) richness of endemic species ☐

(c) migratory population ☐

(d) richness of dominant species ☐

7. The first national park established in India is

(a) Kaziranga National Park ☐

(b) Jim Corbett National Park ☐

(c) Hazaribagh National Park ☐

(d) Gir National Park ☐

8. Which of the following control devices can effectively remove submicroscopic particles?

(a) Cyclones ☐

(b) Baghouse filters ☐

(c) Wet scrubbers ☐

(d) Electrostatic precipitators ☐

9. Among the following gases present in the troposphere, which one is responsible for heating the atmosphere?

(a) Nitrogen ☐

(b) Water vapour ☐

(c) Neon ☐

(d) Argon ☐

10. The solid components of the earth's crust, i.e., rocks and minerals of the continents and other land masses is known as

(a) atmosphere ☐

(b) hydrosphere ☐

(c) lithosphere ☐

(d) biosphere ☐

11. What does the 10 percent law say?

(a) Less than 10 percent of the energy is transferred to each trophic level from the lower trophic level ☐

(b) Only 10 percent of the energy is transferred to each trophic level from the lower trophic level ☐

(c) Only 10 percent of the energy is assimilated from the eaten food ☐

(d) Consumer gains 10 percent mass of the consumed food ☐

12. Based on the source of their nutrition or food, organisms occupy a specific place in the food chain that is known as

(a) strata ☐

(b) trophic level ☐

(c) sere ☐

(d) chain level ☐

13. Species which are not endangered or vulnerable at present, but are at risk are categorized as

(a) extinct species ☐

(b) endangered species ☐

(c) vulnerable species ☐

(d) rare species ☐

14. The boundary between troposphere and stratosphere is known as

(a) tropopause ☐

(b) ionopause ☐

(c) stratopause ☐

(d) mesopause ☐

15. The modern concept of sustainable development focuses more on

(a) economic development ☐

(b) social development ☐

(c) environmental protection ☐

(d) All of the above ☐

(Short Answer Type) 1×5=5

16. Answer any *five* questions :

(a) Define renewable and non-renewable resources. Give example.

(b) Define ecological succession.

(c) Define ecosystem.

(d) What is Red Data Book?

(e) What are hotspots of biodiversity? Which hotspots are found in India?

(f) List two measures to reduce solid wastes.

(g) Define population explosion.

(h) What is Indigenous Traditional Knowledge (ITK)?

(i) What do you mean by biopiracy?

SECTION—B

(Descriptive Type)

Answer any *five* of the following questions : 5×5=25

1. Briefly describe the sources, effects and control of sound pollution. 5

2. Define plastic wastes. What are the environmental effects of plastic wastes? 1+4=5

3. What are the effects of various air pollutants at the global level? 5

4. Define biodiversity. Explain genetic diversity, species diversity and ecosystem diversity. 1+4=5

5. What are endangered and endemic species? Give example. 5

6. What are biogeochemical cycles? Explain the nitrogen cycle. 1+4=5

7. What are ecological pyramids? Explain the three types of ecological pyramids. 1+4=5

8. What is hazard mitigation? Discuss some strategies for hazard mitigation. 1+4=5

9. Explain the scope and importance of environmental studies. 5

10. Explain how social and economic factors are responsible for environmental degradation. 5

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