

Sunday, 23 June 2025

DAILY PRACTICE _DAY 03_ UPSC CSE PRELIMS 2026



“Knowledge is of no value unless you put it into practice”

This quiz consists of 20 Multiple Choice Questions (MCQs) based on Environment and Ecology topics relevant to the UPSC Civil Services Preliminary Examination.

Topics Covered in the Quiz: Environment & Ecology

- 1. Biodiversity and Biodiversity Hotspots**
- 2. Environmental Conventions and International Protocols**
- 3. Air and Water Pollution (Causes and Effects)**
- 4. Climate Change and Global Warming**
- 5. Greenhouse Gases and Ozone Depletion**
- 6. Conservation Strategies (In-situ and Ex-situ)**
- 7. Indian Environmental Policies and Acts (e.g., Forest Rights Act, EIA)**
- 8. Ecosystems and Ecological Pyramids**
- 9. Biogeochemical Cycles (Carbon, Nitrogen, etc.)**
- 10. Bioaccumulation and Biomagnification**
- 11. Protected Areas in India (National Parks, Sanctuaries, etc.)**
- 12. Renewable and Non-Renewable Energy Sources**
- 13. Net Zero and Carbon Sink Concepts**
- 14. Eutrophication and Waste Management**
- 15. Global Environmental Reports (e.g., Living Planet Report)**
- 16. Fly Ash and Thermal Power Plant By-products**
- 17. Forest Ecosystems and Tribal Rights**
- 18. Ecological Niches and Succession**
- 19. Environmental Impact Assessment (EIA)**
- 20. Global Environmental Institutions (GEF, UNEP, WWF, etc.)**

Prelims-Type (Objective)

1. Which of the following statements regarding biodiversity hotspots is/are correct?

1. They must have at least 1,500 species of vascular plants as endemics.
2. They must have lost at least 70% of their original habitat.
3. India has four biodiversity hotspots.

Select the correct answer using the code below:

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

2. Which of the following pairs is correctly matched?

Convention – Focus Area

- (a) Ramsar Convention – Desertification
- (b) CITES – Wetland Conservation
- (c) UNFCCC – Climate Change
- (d) Cartagena Protocol – Ozone Depletion

3. Which of the following pollutants is/are responsible for acid rain?

1. Sulphur dioxide
2. Nitrogen oxides
3. Ammonia

Select the correct answer:

- (a) 1 only
- (b) 1 and 2 only
- (c) 1, 2 and 3
- (d) 2 and 3 only

4. Consider the following species:

1. Lion-tailed macaque
2. Snow leopard
3. Dugong
4. Olive Ridley turtle

Which of the above are classified as endangered under IUCN Red List?

- (a) 1, 2 and 3
- (b) 1, 3 and 4
- (c) 2, 3 and 4
- (d) All of the above

5. 'Blue Carbon' refers to:

- (a) Carbon captured by oceans and coastal ecosystems
- (b) Carbon credits traded in oceanic markets
- (c) Industrial carbon emissions from blue hydrogen
- (d) Carbon emissions from shipbreaking industry

6. Which of the following are greenhouse gases?

1. Carbon dioxide
2. Methane
3. Nitrous oxide
4. Water vapour
5. Ozone

Select the correct answer:

- (a) 1, 2 and 3 only
- (b) 1, 2, 3 and 4 only
- (c) 1, 2, 3, 4 and 5
- (d) 2, 3 and 5 only

7. Which of the following statements is/are correct about ecological succession?

1. It is a unidirectional process.
2. It always ends in a climax community.
3. Secondary succession is faster than primary succession.

Select the correct answer:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 3 only

8. Which of the following are ex-situ conservation methods?

1. Biosphere reserves
2. Botanical gardens
3. Seed banks
4. Wildlife sanctuaries

Select the correct answer:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) 2, 3 and 4

9. India's Intended Nationally Determined Contributions (INDCs) submitted under the Paris Agreement include:

1. Reduction of emission intensity of GDP by 33–35% by 2030 from 2005 levels.
2. Creating an additional carbon sink of 2.5 to 3 billion tonnes through forest cover.
3. Achieving 100% renewable energy in transport sector by 2030.

Select the correct answer:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

10. Which of the following is the correct sequence of stages in the Environmental Impact Assessment (EIA) process?

- (a) Screening → Scoping → Public Consultation → Appraisal
- (b) Scoping → Screening → Appraisal → Public Consultation
- (c) Appraisal → Screening → Public Consultation → Scoping
- (d) Screening → Public Consultation → Scoping → Appraisal

11. Which of the following statements is/are correct regarding Bioaccumulation and Biomagnification?

1. Bioaccumulation refers to the accumulation of substances in an organism over time.
2. Biomagnification refers to the increase in concentration of substances as one moves up the food chain.
3. Both processes are limited to radioactive materials only.

Select the correct answer:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

12. The term “Net Zero” often seen in news refers to:

- (a) Complete elimination of fossil fuel usage
- (b) Reducing carbon emissions to zero
- (c) Balancing the amount of emitted greenhouse gases with the amount removed
- (d) Total elimination of all environmental pollutants

13. Consider the following statements about Fly Ash:

1. It is a byproduct of coal combustion in thermal power plants.
2. It is used in cement manufacturing and road construction.
3. It is classified as hazardous waste under Indian law.

Which of the above statements is/are correct?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

14. Which of the following is/are characteristics of an ecological pyramid?

1. Energy pyramid is always upright.
2. Pyramid of biomass can be inverted.
3. Pyramid of number is always upright.

Select the correct answer:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

15. The Global Environment Facility (GEF) is associated with:

- (a) World Bank
- (b) UNEP and UNDP
- (c) UNFCCC only
- (d) Both (a) and (b)

16. Which of the following are major contributors to eutrophication in freshwater bodies?

1. Phosphates
2. Nitrates
3. Heavy metals

Select the correct answer:

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) All of the above

17. Which one of the following is the largest carbon pool in the carbon cycle?

- (a) Oceans
- (b) Atmosphere
- (c) Forests
- (d) Sedimentary rocks

18. Which of the following organizations publishes the “Living Planet Report”?

- (a) UNEP
- (b) WWF
- (c) IUCN
- (d) FAO

19. The Forest Rights Act, 2006 provides rights to:

1. Scheduled Tribes
2. Traditional Forest Dwellers
3. Forest Officers

Select the correct answer:

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) All of the above

20. The term “Ecological Niche” refers to:

- (a) A physical location in an ecosystem
 - (b) The specific role and position a species has in its environment
 - (c) An endangered species’ habitat
 - (d) A conservation zone for a keystone species
-



MacroEdTech Educational Services is a unit of NehalAdvise Research (OPC) Private Limited, a company duly registered under the Companies Act, 2013, Government of India. Our registered office is located in Pune, Maharashtra, India.

we are an education-focused organization committed to empowering learners of all ages and backgrounds. Our mission is to provide comprehensive educational support services including tutoring, mentoring, and academic counseling to help students achieve their full potential. We design and implement specialized learning programs tailored to meet diverse educational needs and promote inclusive, equitable education for all.

Best Wishes,

Sagar Sakalley

Director and Educator

MacroEdtech

NEHALADVISE RESEARCH (OPC) PRIVATE LIMITED

Current Address: #15A, 4th Floor, Suite Number 1311, City Vista, Kharadi, 411014, Pune, Maharashtra

E-mail : info@macroedtech.com Website : www.macroedtech.net

