

UPPCS Prelims 2025 Test 7 (Questions) – Environment Full Length (SSW - 8077834630)

Question 1. Which of the following coined the term Ecology?

- (a) Eugene Odum
- (b) Ramdeo Misra
- (c) A.G. Tansley
- (d) Ernst Haeckel

Question 2. Assertion (A): Ecosystems maintain homeostasis through feedback mechanisms.

Reason (R): Negative feedback amplifies ecological disturbances.

Code:

- (a) Both A and R are true, and R is the correct explanation of A.
- (b) Both A and R are true, but R is not the correct explanation of A.
- (c) A is true, but R is false.
- (d) A is false, but R is true.

Question 3. Consider the following statements:

1. Foundation species exert minimal impact on ecosystem structure.
2. Keystone species exert a disproportionate impact on ecosystem function.

Choose the correct option:

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 4. Which of the following is not a feature of ecotone?

- (a) Edge effect
- (b) Higher species diversity
- (c) Uniform environmental conditions
- (d) Transitional zone between two ecosystems

Question 5. Choose the incorrect statement

- (a) Net Primary Productivity = GPP – Respiration
- (b) Marine ecosystems have higher NPP than terrestrial ecosystems
- (c) Primary productivity is highest in tropical rainforests

(d) GPP is the total energy fixed through photosynthesis

Question 6. Consider the following statements:

1. Producers use photosynthesis to fix energy.
2. Chemotrophs depend on sunlight for energy.

Which of the above are correct?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 7. Choose the true statement from the following:

- (a) Deep-sea bacteria use chemosynthesis
- (b) All ecosystems have equal productivity
- (c) Ecosystems are closed systems
- (d) Energy flows cyclically in ecosystems

Question 8. Consider the following statements:

1. Ecological succession results in climax communities.
2. Ecological succession is random and unidirectional.

Choose the correct option:

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 9. Choose the correct statement(s):

1. Decomposers operate at all trophic levels.
2. Detritivores chemically decompose dead matter.

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 10. Assertion (A): Pyramid of energy is never inverted.

Reason (R): Energy flow in ecosystems follows the Second Law of Thermodynamics.

Code:

- (a) Both A and R are true, and R is the correct explanation of A.
- (b) Both A and R are true, but R is not the correct explanation.
- (c) A is true, but R is false.
- (d) A is false, but R is true.

Question 11. Consider the following statements:

1. Bioaccumulation occurs within one organism.
2. Biomagnification occurs across trophic levels.

Which of the above are correct?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 12. Consider the following pairs:

1. Mutualism – Both benefit
2. Commensalism – One benefits, one unaffected
3. Amensalism – One harmed, other unaffected

Which of the above are correctly matched?

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

Question 13. Which is the slowest nutrient cycle among the following?

- (a) Carbon
- (b) Nitrogen
- (c) Phosphorus
- (d) Oxygen

Question 14. Choose the incorrect match:

- (a) Nitrosomonas – Nitrification
- (b) Nitrobacter – Nitrate → Nitrogen
- (c) Rhizobium – Symbiotic nitrogen fixation
- (d) Pseudomonas – Denitrification

Question 15. Consider the following:

1. Eutrophication
2. Ocean acidification

Which is related to excess nitrogen and phosphorus?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 16. Consider the following statements:

1. Sulphuric acid in acid rain comes from SO_2 oxidation.
2. Acid rain reduces soil fertility.

Which is/are correct?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 17. Match the succession types with examples:

List-I – List-II

- A. Hydrosere – 1. Bare rock colonization
- B. Lithosere – 2. Succession in lakes
- C. Psammosere – 3. Saline marsh succession
- D. Halosere – 4. Sand dune succession

Code:

A B C D

- (a) 1 2 3 4
- (b) 2 1 4 3
- (c) 4 1 3 2
- (d) 3 2 1 4

Question 18. Assertion (A): Phosphorus is often a limiting nutrient in freshwater ecosystems.

Reason (R): Phosphorus is highly soluble and rapidly cycled in the atmosphere.

Code:

- (a) Both A and R are true, and R is the correct explanation
- (b) A is true, R is false
- (c) Both A and R are false
- (d) A is false, R is true

Question 19. Which species type is most useful in detecting early environmental changes in an ecosystem?

- (a) Keystone species
- (b) Foundation species
- (c) Indicator species
- (d) Flagship species

Question 20. Choose the correct statement:

- (a) Lichens are air pollution indicators.
- (b) Sea otters are keystone species.
- (c) Corals are foundation species.
- (d) All of the above

Question 21. Assertion (A): The tiger is both a flagship and umbrella species.

Reason (R): Protecting the tiger ensures the conservation of entire ecosystems and generates public support.

Code:

- (a) Both A and R are true and R is the correct explanation
- (b) Both A and R are true, but R is not the correct explanation
- (c) A is true, R is false
- (d) A is false, R is true

Question 22. Choose the incorrect match:

- (a) Bee – Pollination
- (b) Coral – Foundation species
- (c) Frog – Air quality indicator
- (d) Panda – Flagship species

Question 23. Match List-I with List-II

List-I (Ecosystem Service) – List-II (Example)

- A. Provisioning – 1. Water purification
- B. Regulating – 2. Sacred groves
- C. Supporting – 3. Timber
- D. Cultural – 4. Nutrient cycling

Code:

A B C D

- (a) 1 2 3 4
- (b) 4 2 1 3
- (c) 3 1 4 2
- (d) 2 4 1 3

Question 24. Choose the true statement:

- (a) Eco-Mark is mandatory for all consumer goods.
- (b) Eco-Mark is certified by CPCB.
- (c) Eco-Mark focuses on biodegradability and pollution control.
- (d) Eco-Mark is awarded by NITI Aayog.

Question 25. Consider the following species:

1. Lion-tailed macaque
2. Nilgiri tahr
3. Water hyacinth

Which are endemic species?

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

Question 26. Choose the incorrect pair:

- (a) Bio-capacity Debtor – Footprint > Biocapacity
- (b) Earth Overshoot Day – Resource consumption exceeds regeneration
- (c) Deep Ecology – Human-centered approach
- (d) Carrying Capacity – Maximum sustainable population

Question 27. Choose the correct statement:

- (a) Ecocline is a sharp ecological boundary.
- (b) Ecophene is a genetic change in populations.
- (c) Ecotype is a permanent genetic adaptation.
- (d) Home range is a defended territory.

Question 28. Which of the following correctly defines "carrying capacity"?

- (a) Amount of nutrients in an ecosystem
- (b) Number of species in a forest
- (c) Maximum population an ecosystem can sustain
- (d) Productivity of primary producers

Question 29. Consider the following statements:

1. A food web contains multiple interconnected food chains.
2. Food chains are always linear and isolated in nature.

Choose the correct option:

- (a) Only 1

- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 30. Consider the following:

1. All herbivores are primary consumers.
2. All carnivores are tertiary consumers.
3. Energy transfer in a food chain is unidirectional.

Which of the above are correct?

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

Question 31. Assertion (A): Ocean acidification reduces coral reef growth.

Reason (R): Increased CO₂ in seawater lowers pH, affecting carbonate ion availability.

Code:

- (a) Both A and R are true and R is the correct explanation
- (b) Both A and R are true but R is not the correct explanation
- (c) A is true, R is false
- (d) A is false, R is true

Question 32. Which of the following is a cooling aerosol released by volcanoes?

- (a) Black carbon
- (b) Sulphate aerosol
- (c) Carbon monoxide
- (d) Fluorocarbons

Question 33. Assertion (A): Arctic sea ice is melting at unprecedented rates.

Reason (R): Ice-albedo feedback accelerates warming in polar regions.

Code:

- (a) Both A and R are true and R is the correct explanation
- (b) Both A and R are true but R is not the correct explanation
- (c) A is true, R is false
- (d) A is false, R is true

Question 34. Which of the following are observed consequences of climate change?

1. Coral bleaching
2. Groundwater recharge improvement
3. Vector-borne disease expansion

Code:

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

Question 35. Assertion (A): India is both a victim and contributor to climate change.

Reason (R): India ranks among the top 3 cumulative GHG emitters.

Code:

- (a) Both A and R are true and R is the correct explanation
- (b) A is true, R is false
- (c) Both A and R are false
- (d) A is false, R is true

Question 36. Which of the following contributes to ocean acidification?

1. Volcanic eruptions
2. CO₂ absorption by oceans
3. Coral reef bleaching

Code:

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

Question 37. Arrange the following greenhouse gases in increasing order of their GWP:

- A. CO₂
- B. CH₄
- C. SF₆
- D. N₂O

Code:

- (a) A < B < D < C
- (b) A < D < B < C
- (c) D < B < C < A
- (d) C < D < B < A

Question 38. Which of the following are impacts of global warming?

1. Glacier and snow cover reduction
2. Habitat expansion for polar bears
3. Increase in vector-borne diseases

Select the correct code:

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

Question 39. Which of the following explains why methane is a potent greenhouse gas?

- (a) It is released in large quantities.
- (b) It traps more heat per molecule than CO₂.
- (c) It reacts with ozone.
- (d) It is a secondary pollutant.

Question 40. Which of the following represents the “Deadly Trio” of ocean-related climate threats?

- (a) Acidification, oil spills, deoxygenation
- (b) Coral bleaching, plastic pollution, warming
- (c) Warming, acidification, deoxygenation
- (d) Warming, eutrophication, coral loss

Question 41. Which international treaty was the first legally binding climate agreement?

- (a) Paris Agreement
- (b) Kyoto Protocol
- (c) Montreal Protocol
- (d) Bali Action Plan

Question 42. Assertion (A): The Paris Agreement has no strict division of countries into Annex I and Non-Annex I.

Reason (R): It follows a voluntary pledge-based system under Common But Differentiated Responsibilities (CBDR).

Code:

- (a) Both A and R are true and R is the correct explanation
- (b) Both A and R are true, but R is not the correct explanation
- (c) A is true, R is false
- (d) A is false, R is true

Question 43. Arrange the following in chronological order of launch:

1. UNEP
2. IPCC
3. Green Climate Fund
4. Kyoto Protocol

Code:

- (a) 1-2-3-4
- (b) 1-2-4-3
- (c) 1-3-2-4
- (d) 1-2-3-4

Question 44. India's net zero year commitment under Paris Agreement is:

- (a) 2030
- (b) 2047
- (c) 2050
- (d) 2070

Question 45. Assertion (A): India has ratified the Doha Amendment to the Kyoto Protocol.

Reason (R): It binds India to legally reduce its emissions.

Code:

- (a) Both A and R are true and R is the correct explanation
- (b) A is true, R is false
- (c) Both A and R are false
- (d) A is false, R is true

Question 46. Which of the following reports is published by UNEP?

- (a) Global Climate Risk Index
- (b) Climate Change Performance Index (CCPI)
- (c) Emission Gap Report
- (d) Environmental Performance Index

Question 47. Match COPs with major decisions:

- A. COP3 – 1. Kyoto Protocol
- B. COP21 – 2. Paris Agreement
- C. COP26 – 3. Panchamrit
- D. COP27 – 4. Loss and Damage Fund

Code:

- A B C D
- (a) 1 2 3 4

- (b) 1 2 4 3
- (c) 1 4 2 3
- (d) 2 3 1 4

Question 48. Assertion (A): India is ranked among the top 10 in CCPI 2025.

Reason (R): India's climate policy is rated as "Very High" in all categories.

Code:

- (a) Both A and R are true and R is the correct explanation
- (b) Both A and R are true, but R is not the correct explanation
- (c) A is true, R is false
- (d) A is false, R is true

Question 49. In which year was the Intergovernmental Panel on Climate Change (IPCC) formed?

- (a) 1982
- (b) 1988
- (c) 1992
- (d) 2000

Question 50. Choose the incorrect statement:

- (a) Green Climate Fund (GCF) was created at COP16, Cancun
- (b) Loss and Damage Fund is governed under Kyoto Protocol
- (c) Adaptation Fund gets money from Clean Development Mechanism (CDM)
- (d) Least Developed Countries Fund (LDCF) supports National Adaptation Plans in LDCs

Question 51. Which countries host COP28 and COP29 respectively?

- (a) UK and Brazil
- (b) UAE and Azerbaijan
- (c) Egypt and Canada
- (d) USA and Germany

Question 52. Consider the following statements regarding Article 6 of the Paris Agreement:

1. It sets out the framework for international cooperation using market and non-market approaches.
2. It includes mechanisms for countries to trade carbon credits towards achieving

their Nationally Determined Contributions (NDCs).

Which of the statements given above are correct?

- (a) 1 only
- (b) 2 only
- (c) 1 and 2 both
- (d) Neither 1 Nor 2

Question 53. The Clean Development Mechanism (CDM) allows –

1. Developing countries to get financial support for climate projects.
2. Developed countries to meet emission targets cost-effectively.

Select the correct code:

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 54. Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 55. Choose the correct statement:

- (a) Environmental Performance Index (EPI) is published annually by Yale University.
- (b) COP26 introduced the Paris Agreement.
- (c) Climate Change Performance Index (CCPI) ranks India highest in renewable energy.
- (d) GST (Global Stocktake) occurs every 5 years.

Question 56. Which of the following are components of National Mission on Enhanced Energy Efficiency (NMEEE)?

1. PAT Scheme
2. SEEP
3. CAMPA

Select the correct code:

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

Question 57. Consider the following pairs (Organization – Year of establishment):

1. UNEP – 1972
2. IPCC – 1992
3. GEF – 1991
4. WMO – 1950

How many of the above pairs are correctly matched?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

Question 58. Which is the largest solar park in India?

- (a) Pavagada
- (b) Bhadla
- (c) Charanka
- (d) Rewa

Question 59. Which plant is central to the cold desert sub-mission of the Green India Mission?

- (a) Bamboo
- (b) Acacia
- (c) Seabuckthorn
- (d) Jatropha

Question 60. Which of the following cities in India has been recognized as a “Tree City of the World”?

- (a) Bengaluru
- (b) Mumbai
- (c) Ahmedabad
- (d) Chennai

Question 61. Match the type of carbon with its characteristic feature:

- A. Black Carbon – 1. Soot from incomplete combustion
- B. Blue Carbon – 2. Sequestered in mangroves, seagrass
- C. Brown Carbon – 3. Absorbs UV, from biomass burning
- D. Green Carbon – 4. Carbon stored in terrestrial vegetation

Code:

A B C D

- (a) 1 2 3 4
- (b) 1 3 2 4
- (c) 3 1 2 4
- (d) 1 3 4 2

Question 62. Which gases are released from biomass/crop residue burning?

1. CO₂
2. Methane
3. Sulphur dioxide
4. Ozone

Code:

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

Question 63. The first Climate Smart Village in India is:

- (a) Rampur, Uttar Pradesh
- (b) Dhanora, Rajasthan
- (c) Mewat, Haryana
- (d) Kalpetta, Kerala

Question 64. Assertion (A): Methane hydrate is a potential future energy source.

Reason (R): It traps methane under high temperature and pressure.

Code:

- (a) Both A and R are true and R is the correct explanation
- (b) A is true, R is false
- (c) Both A and R are false
- (d) A is false, R is true

Question 65. Assertion (A): Carbon fertilization enhances greening, but may have limitations.

Reason (R): Greening is independent of water and nutrient availability.

Code:

- (a) Both A and R are true and R is the correct explanation
- (b) A is true, R is false
- (c) Both A and R are false
- (d) A is false, R is true

Question 66. Consider the following statements:

1. VOCs are released from both industrial and household sources.
2. VOCs are responsible for formation of ground-level ozone in presence of sunlight.

Which of the statements given above is/are correct?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 67. Match List-I with List-II and select the correct answer:

List-I (Radiation Type) | List-II (Effect)

- A. UV-A | 1. Sunburn and Vitamin D formation
- B. UV-B | 2. Skin cancer and DNA damage
- C. UV-C | 3. Completely absorbed by ozone layer

Code:

A B C

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

Question 68. Assertion (A): Ground-level ozone is highest in summer.

Reason (R): Ozone forms in presence of heat, sunlight, VOCs and NOx.

Code:

- (a) Both A and R are true, and R is the correct explanation
- (b) Both A and R are true, but R is not the correct explanation
- (c) A is true, R is false
- (d) A is false, R is true

Question 69. The ozone hole is most prominently observed over:

- (a) Himalayas
- (b) Sahara Desert
- (c) Antarctic Region
- (d) Arctic Region

Question 70. Which of the following is the first treaty in the UN system to achieve universal ratification?

- (a) Kyoto Protocol
- (b) Montreal Protocol
- (c) Paris Agreement
- (d) Stockholm Convention

Question 71. Who coined the term "Biodiversity"?

- (a) Edward O. Wilson
- (b) R.H. Whittaker
- (c) W.G. Rosen
- (d) Norman Myers

Question 72. Assertion (A): Genetic diversity ensures adaptability of species to environmental change.

Reason (R): It reduces the genetic variability within a species.

Code:

- (a) Both A and R are true and R is the correct explanation
- (b) Both A and R are true but R is not the correct explanation
- (c) A is true, R is false
- (d) A is false, R is true

Question 73. Which biodiversity levels are correctly matched?

1. Alpha – Within habitat
2. Beta – Between habitats
3. Gamma – Landscape level

Code:

- (a) Only 1 and 2
- (b) Only 2 and 3
- (c) All three
- (d) Only 1 and 3

Question 74. Assertion (A): Amphibians are the most threatened vertebrate group.

Reason (R): They are highly sensitive to environmental changes.

Code:

- (a) Both A and R are true and R is the correct explanation

(b) Both A and R are true but R is not the correct explanation

(c) A is true, R is false

(d) A is false, R is true

Question 75. Which of the following are among the “Hottest Hotspots” of biodiversity?

1. Himalayas
2. Indo-Burma
3. Eastern Ghats
4. Western Ghats

Code:

(a) 1, 2 and 3 only

(b) 1, 2 and 4 only

(c) 2 and 4 only

(d) All of the above

Question 76. Match the biodiversity measurement type with its feature:

- A. Species Richness – 1. Number of species
 B. Species Evenness – 2. Relative abundance
 C. Shannon Index – 3. Diversity Index
 D. Simpson’s Index – 4. Dominance measure

Code:

A B C D

(a) 1 2 3 4

(b) 1 3 2 4

(c) 1 4 2 3

(d) 3 1 4 2

Question 77. Assertion (A): Coral reefs are among the most biodiverse marine ecosystems.

Reason (R): They exist in low-nutrient environments.

Code:

(a) Both A and R are true and R is the correct explanation

(b) Both A and R are true but R is not the correct explanation

(c) A is true, R is false

(d) A is false, R is true

Question 78. Choose the incorrect statement:

(a) Species richness decreases with ocean depth

(b) Coral reefs have low species density

(c) Amazon rainforest is the richest biodiversity zone

(d) Deep oceans have low productivity

Question 79. Which of the following is an example of ex-situ conservation?

(a) Sacred grove

(b) Biosphere reserve

(c) Botanical garden

(d) Wildlife sanctuary

Question 80. Match Threats with Examples:

- A. Habitat loss – 1. Pesticides
 B. Invasive species – 2. Poaching
 C. Pollution – 3. Deforestation
 D. Overexploitation – 4. Lantana

Code:

A B C D

(a) 1 2 3 4

(b) 2 3 1 4

(c) 3 4 1 2

(d) 1 3 2 4

Question 81. Assertion (A): Sacred groves are examples of community-led conservation.

Reason (R): They are a modern invention under the Wildlife Protection Act.

Code:

(a) Both A and R are true and R is the correct explanation

(b) A is true, R is false

(c) Both A and R are false

(d) A is false, R is true

Question 82. Which of the following is the most species-rich group of organisms?

(a) Birds

(b) Mammals

(c) Insects

(d) Fungi

Question 83. Consider the following pairs:

1. WWF – Earth Hour
2. UNEP – Champions of the Earth
3. ZSL – Living Planet Index

Which of the pairs given above is/are correctly matched?

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

Question 84. Consider the following statements:

1. India ratified the CBD in 1994.
2. India enacted the Biological Diversity Act in 2002.

Choose the correct answer:

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 85. Match List-I with List-II and select the correct answer from the code given below:

List-I (Convention)	List-II (Focus Area)
A. CITES	1. Wetlands
B. Ramsar Convention	2. Trade in endangered species
C. UNCBD	3. Genetic resource access
D. ITPGRFA	4. Plant genetic resources

Code:

- | | | | |
|-------|---|---|---|
| A | B | C | D |
| (a) 1 | 2 | 3 | 4 |
| (b) 2 | 1 | 3 | 4 |
| (c) 4 | 3 | 2 | 1 |
| (d) 2 | 1 | 4 | 3 |

Question 86. Choose the true statement from the following regarding the Living Planet Index (LPI):

- (a) It measures changes in populations of plant species globally.
- (b) It is published annually by BirdLife International.
- (c) It is developed by ZSL and WWF to track vertebrate species trends.
- (d) It was first published in 2010.

Question 87. Arrange the following Red List categories in descending order of extinction risk:

- A. Vulnerable
- B. Extinct

C. Critically Endangered

D. Endangered

Code:

- (a) B, C, D, A
- (b) C, D, A, B
- (c) B, A, D, C
- (d) C, A, D, B

Question 88. Consider the following pairs regarding endangered mammals in India (as per IUCN Red List 2025-1):

1. Kashmir Stag – Jammu & Kashmir
2. Namdapha Flying Squirrel – Arunachal Pradesh
3. Elvira Rat – Himachal Pradesh

Which of the above pairs is/are correctly matched?

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

Question 89. Which of the following is the correct descending order of threat among the IUCN Red List species groups in India?

- (A) Amphibians
- (B) Mammals
- (C) Birds
- (D) Fishes

Select the correct order:

- (a) A > B > D > C
- (b) B > A > C > D
- (c) D > B > C > A
- (d) A > D > B > C

Question 90. Choose the true statement from the following about the Nagoya Protocol:

- (a) It deals with conservation of wetlands.
- (b) It is legally non-binding.
- (c) It ensures fair benefit-sharing from genetic resource use.
- (d) It was adopted in 2000 along with the Cartagena Protocol.

Question 91. Consider the following statements regarding the World Heritage Convention:

1. It was adopted by UNESCO in 1972.
2. It protects only natural sites of universal value.

Select the correct answer using the code given below:

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 92. Arrange the following biodiversity-related conventions in chronological order of adoption:

1. Ramsar Convention
2. CITES
3. CBD
4. Cartagena Protocol

Code:

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

Question 93. Consider the following pairs:

Convention – India's Host Role

1. CBD COP-11 – Hyderabad
2. CMS COP-13 – Gandhinagar
3. CITES COP-3 – Delhi

Which of the above are correctly matched?

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

Question 94. Which of the following conventions is referred to as the "Bonn Convention"?

- (a) CITES
- (b) CMS
- (c) CBD
- (d) UNCCD

Question 95. Which of the following targets is not part of the Kunming-Montreal Global Biodiversity Framework 2030?

- (a) Restore 30% of degraded ecosystems
- (b) Eliminate invasive alien species completely

(c) Conserve 30% of land and sea areas

(d) Reduce pollution to non-harmful levels for biodiversity

Question 96. Consider the following statements regarding the TEEB initiative:

1. It aims to assign economic value to biodiversity and ecosystem services.
2. It was launched by the Global Footprint Network.

Which of the statements given above is/are correct?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 97. Consider the following statements regarding the WWF's Living Planet Report 2024:

1. It reported a 69% global decline in vertebrate populations between 1970 and 2020.
2. The Latin America region showed the highest decline.

Which of the statements given above is/are correct?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 98. Consider the following statements regarding the Nagoya-Kuala Lumpur Supplementary Protocol:

1. It is related to liability and redress for damage caused by LMOs.
2. It is a part of the Nagoya Protocol on Access and Benefit Sharing.

Which of the above statements is/are correct?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 99. Consider the following statements:

1. Forests and wildlife are under the Union List.

2. Environment protection is a Directive Principle under Article 48A.

Which of the above is/are correct?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 100. Arrange the following events in chronological order:

- I. Wildlife Protection Act
- II. Environment Protection Act
- III. Forest Conservation Act

Code:

- (a) I, II, III
- (b) I, III, II
- (c) III, I, II
- (d) II, I, III

Question 101. Consider the following pairs:

- 1. Schedule I – Highest protection to animals
- 2. Schedule III – CITES-regulated species
- 3. Schedule IV – Protected plants

Which are correctly matched post-2022 amendment?

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

Question 102. Which of the following is India's first Marine National Park?

- (a) Gulf of Mannar Marine
- (b) Rani Jhansi Marine
- (c) Mahatma Gandhi Marine
- (d) Gulf of Kachchh

Question 103. Which of the following is not a function of Biodiversity Management Committees (BMCs)?

- (a) Maintain PBRs
- (b) Issue wildlife hunting licenses
- (c) Levy collection fees for bioresources
- (d) Promote conservation at local level

Question 104. Which state has the highest number of National Parks in India?

- (a) Assam
- (b) Madhya Pradesh
- (c) Maharashtra
- (d) Karnataka

Question 105. Which of the following pairs is not correctly matched?

Protected Area – River/Water Body

- (a) Kaziranga – Brahmaputra
- (b) Gir – Yamuna
- (c) Simlipal – Deo
- (d) Bandhavgarh – Charanganga

Question 106. Which of the following is/are true regarding the Biological Diversity Act, 2002?

- 1. It mandates benefit-sharing with local communities.
- 2. It exempts traditional healers and farmers from approval requirements.
- 3. All offences under this Act are bailable.

Select the correct answer using the code below:

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

Question 107. Consider the following statements:

- 1. Biosphere Reserves are notified under the Wildlife Protection Act, 1972.
- 2. They are part of the UNESCO Man and Biosphere Programme.

Which of the above is/are correct?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 108. Consider the following pairs:

Protected Area – Unique Feature

- 1. Hemis National Park – Largest NP in India
- 2. Keibul Lamjao – Floating NP
- 3. Simlipal – Part of Marine National Parks

Which of the pairs is/are correctly matched?

- (a) 1 and 2 only

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

Question 109. Which of the following is the largest Wildlife Sanctuary in India by area?

- (a) Dibru-Saikhowa WLS
- (b) Rann of Kutch WLS
- (c) National Chambal Sanctuary
- (d) Periyar Wildlife Sanctuary

Question 110. Which of the following zones in a Biosphere Reserve permits settlement, cultivation, and sustainable use?

- (a) Core Zone
- (b) Buffer Zone
- (c) Transition Zone
- (d) Research Zone

Question 111. Consider the following pairs:

1. Dibru-Saikhowa – Smallest Biosphere Reserve
2. Great Rann of Kutch – Largest Biosphere Reserve
3. Nilgiri – First included in MAB Programme

Which of the pairs above are correctly matched?

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

Question 112. Which species is conserved under the project launched in 1972 at Kedarnath WLS?

- (a) Hangul
- (b) Himalayan Musk Deer
- (c) Snow Leopard
- (d) Nilgiri Tahr

Question 113. Which species is conserved in Vikramshila Gangetic Dolphin Sanctuary?

- (a) Olive Ridley Turtle
- (b) Snow Leopard
- (c) Gangetic Dolphin
- (d) Dugong

Question 114. Which of the following was India's first Elephant Reserve?

- (a) Agasthyamalai

(b) Terai Elephant Reserve

(c) Singhbhum Elephant Reserve

(d) Shivalik Elephant Reserve

Question 115. Consider the following statements:

1. Project Tiger was launched in 1973 from Jim Corbett NP.
2. National Tiger Conservation Authority was formed in 2006.
3. Tigers are listed under WPA Schedule II.

Which of the statements are correct?

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

Question 116. Which of the following is a primary pollutant?

- (a) Ozone
- (b) Sulphur dioxide
- (c) Peroxyacetyl nitrate
- (d) Smog

Question 117. Consider the following statements:

1. PM_{2.5} can enter the bloodstream.
2. PM₁₀ remains suspended in air longer than PM_{2.5}.

Which of the above is/are correct?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 118. Consider the following pollutants:

1. Nitrogen oxides
2. Volatile organic compounds
3. Ground-level ozone

Which of these are involved in photochemical smog formation?

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

Question 119. Choose the true statement about National Clean Air Programme (NCAP):

- (a) Targets reduction in PM_{2.5} only

- (b) Aims to reduce pollution by 50% by 2030
- (c) Targets at least 20% reduction in PM_{2.5} and PM₁₀ by 2024
- (d) Covers all metro cities only

Question 120. Which of the following are monitored under the National Ambient Air Quality Standards (NAAQS)?

1. Ozone (O₃)
2. Carbon Dioxide (CO₂)
3. Lead (Pb)
4. Ammonia (NH₃)

Select the correct answer using code below:

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

Question 121. Consider the following:

1. BOD measures biodegradable waste.
2. COD includes non-biodegradable pollutants.
3. High BOD indicates clean water.

Which statements are correct?

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

Question 122. Consider the following statements about Indoor Air Pollution:

1. Can be up to 10 times more than outdoor pollution.
2. Radon is a major indoor pollutant.
3. Use of VOC-rich paints can worsen it.

Which are correct?

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

Question 123. Which of the following is not correctly matched?

Technique – Description

- (a) Bioventing – Uses bacteria to degrade organics in soil
- (b) Bioaugmentation – Uses imported microbes

- (c) Biosparging – Injects air into water table
- (d) Phytoremediation – Removes metals using fungi

Question 124. The pollutant responsible for 'Itai-Itai disease' is –

- (a) Lead
- (b) Cadmium
- (c) Mercury
- (d) Arsenic

Question 125. Water contaminated with excess fluoride can cause –

- (a) Blackfoot disease
- (b) Knock-knee syndrome
- (c) Minamata disease
- (d) Blue baby syndrome

Question 126. The term 'Dead Zone' refers to:

- (a) Areas with intense UV radiation
- (b) Marine zones with low oxygen
- (c) Places with high biodiversity
- (d) Forests affected by acid rain

Question 127. Which pollutant is correctly matched with its disease?

- (a) Mercury – Minamata
- (b) Arsenic – Fluorosis
- (c) Cadmium – Skin lesions
- (d) Fluoride – Lung cancer

Question 128. Assertion (A): CO₂ is excluded from AQI.

Reason (R): CO₂ does not affect human health in normal conditions.

Code:

- (a) Both A and R true, R correct explanation
- (b) Both A and R true, R not correct explanation
- (c) A true, R false
- (d) A false, R true

Question 129. Water contaminated with high nitrates can cause –

- (a) Fluorosis
- (b) Minamata disease
- (c) Blue baby syndrome
- (d) Itai-Itai

Question 130. Consider the following statements:

1. Noise above 85 dB can cause hearing loss.
2. WHO considers noise under 70 dB safe.

Which of the above statements is/are true?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Question 131. Arrange the following types of radiation in order of penetration (low to high):

- A. Alpha
- B. Beta
- C. Gamma

Code:

- (a) A, C, B
- (b) A, B, C
- (c) C, B, A
- (d) B, C, A

Question 132. Identify the odd pair:

- (a) Becquerel – Radioactivity
- (b) Roentgen – X-rays
- (c) Sievert – Sound intensity
- (d) Gray – Absorbed dose

Question 133. What is the major goal of Mission Amrit Sarovar?

- (a) Artificial recharge wells
- (b) Urban wastewater reuse
- (c) Rejuvenation of 75 water bodies per district
- (d) Canal irrigation in tribal areas

Question 134. Choose the correct statement:

- (a) GLOFs reduce flooding downstream.
- (b) Dead zones are rich in oxygen.
- (c) Riparian buffers reduce agricultural runoff.
- (d) Phytoremediation uses heat to remove toxins.

Question 135. Assertion (A): Eucalyptus trees reduce sewage water in ponds.

Reason (R): They absorb and release water vapour efficiently.

Code:

- (a) Both A and R true, and R is correct explanation

(b) Both A and R true, but R not correct explanation

(c) A true, R false

(d) A false, R true

Question 136. What type of toilet decomposes human waste using anaerobic bacteria?

- (a) Ecosan
- (b) RO toilet
- (c) Bio-toilet
- (d) Flush tank

Question 137. Match the pollutant with its major source:

- A. Mercury – 1. Paper Industry
- B. Arsenic – 2. Groundwater
- C. Lead – 3. Old Plumbing
- D. Cadmium – 4. Electroplating

Code:

A B C D

- (a) 1 2 3 4
- (b) 2 1 3 4
- (c) 1 3 2 4
- (d) 4 2 1 3

Question 138. Choose the incorrect statement:

- (a) Thermal pollution increases dissolved oxygen in water.
- (b) Oil spills form a layer that blocks oxygen.
- (c) Algal bloom is associated with nutrient enrichment.
- (d) Coliform bacteria indicate fecal contamination.

Question 139. Which of the following are biodegradable pollutants?

- A. Sewage
- B. Pesticides
- C. Detergents
- D. Heavy metals

Code:

- (a) A and B only
- (b) A and C only
- (c) A, C and D
- (d) B, C and D

Question 140. Choose the correct statement:

- (a) Incineration is a biological treatment process.
- (b) Composting is suitable for dry, non-biodegradable waste.
- (c) Vermiculture involves using bacteria for waste digestion.
- (d) Pyrolysis is a thermochemical process without oxygen.

Question 141. Match the following waste types with disposal methods:

- A. Low-level radioactive waste — 1. Incineration
- B. Municipal Solid Waste — 2. Composting
- C. High-level radioactive waste — 3. Deep geological disposal
- D. Plastic waste — 4. Road construction

Code:

A B C D

- (a) 1 2 3 4
- (b) 2 1 3 4
- (c) 3 2 4 1
- (d) 4 3 1 2

Question 142. Which rule introduced the concept of Extended Producer Responsibility (EPR) for the first time?

- (a) Hazardous Waste Rules
- (b) Bio-medical Waste Rules
- (c) Plastic Waste Management Rules
- (d) E-Waste Management Rules, 2016

Question 143. What does 'Cradle to Grave' policy relate to?

- (a) E-waste recycling
- (b) Hazardous waste tracking
- (c) Compost generation
- (d) Bio-medical waste transport

Question 144. What is the minimum thickness prescribed for plastic carry bags under Plastic Waste Management Rules, 2016?

- (a) 20 microns
- (b) 30 microns
- (c) 40 microns
- (d) 50 microns

Question 145. Assertion (A): Vermicomposting involves earthworms.

Reason (R): Earthworms consume plastics and metals.

Code:

- (a) Both A and R are true, and R is the correct explanation of A
- (b) Both A and R are true, but R is not the correct explanation of A
- (c) A is true, R is false
- (d) A is false, R is true

Question 146. Which of the following is not a form of renewable energy?

- (a) Solar energy
- (b) Nuclear energy
- (c) Wind energy
- (d) Biomass energy

Question 147. India's renewable energy target by 2030 under Panchamrit includes which of the following?

- A. 50% energy from renewables
- B. 500 GW renewable capacity

Select the correct answer using the code below:

- (a) Only A
- (b) Only B
- (c) A and B
- (d) None of the above

Question 148. Which of the following is correctly matched?

- (a) Green Hydrogen – Electrolysis using fossil fuels
- (b) Blue Hydrogen – Electrolysis using solar energy
- (c) Grey Hydrogen – Natural Gas without CCUS
- (d) White Hydrogen – Artificially produced in labs

Question 149. Consider the following statements:

1. National Wind Mission aims for 60 GW onshore wind power by 2030.
2. Offshore wind potential in India is higher than onshore.
3. India's largest wind capacity is installed in Gujarat.

Which are correct?

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

Question 150. Which of the following organizations is the headquarters of the International Solar Alliance (ISA)?

- (a) Paris, France
- (b) Gurugram, India
- (c) Geneva, Switzerland
- (d) Nairobi, Kenya