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Total No. of Pages : 22

M.Sc Entrance Examination 2026
Environmental Science
Sub. Code: 58727

Day and Date : Friday, 15-May-2026
Time : 10.30 AM TO 12.00 PM

Total Marks : 100**Instructions:**

- 1) All questions are compulsory.
 - 2) Each question carries 1 mark.
 - 3) Answers should be marked in the given OMR answer sheet by darkening the appropriate option.
 - 4) Follow the instructions given on OMR sheet.
 - 5) Rough work shall be done on the sheet provided at the end of question paper.
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- 1 What does the term 'Environment' means?
 - a) Only living organisms
 - b) Only physical factors
 - c) The sum of all living and non-living things and their interactions
 - d) Only the atmosphere

- 2 The multidisciplinary nature of Environmental Studies implies it draws knowledge from
 - a) Only Biology
 - b) Only Chemistry
 - c) A single scientific field
 - d) Various fields like science, law, economics, and social sciences

- 3 The primary purpose of celebrating 'World Environment Day' is to
- a) Promote industrial growth
 - b) Increase public environmental awareness
 - c) Celebrate economic achievements
 - d) Encourage deforestation
- 4 The Biosphere' is defined as
- a) The zone of water
 - b) The zone of air
 - c) The zone of land
 - d) The zone of life where all. ecosystems operate
- 5 The need for public environmental awareness is critical because
- a) It helps in getting more funding for industries
 - b) An informed public can make sustainable choices and demand policy changes
 - c) It is a mandatory university course
 - d) It reduces the need for government regulations
- 6 World Water Day' is significant as it highlights the importance of
- a) Fossil fuels
 - b) Freshwater resources
 - c) Solar energy
 - d) Mineral resources

- 7 The structure of the environment includes the lithosphere, which is the
- a) Gaseous envelope
 - b) Water body
 - c) Rocky outer layer
 - d) Living world
- 8 The 'Hydrosphere' refers to
- a) The Earth's core
 - b) The water on the Earth's surface
 - c) The atmospheric gases
 - d) The ozone layer
- 9 Celebrating Earth Day' primarily aims to
- a) Support increased use of plastic
 - b) Demonstrate support for environmental protection
 - c) Promote fossil fuel consumption
 - d) Celebrate urbanization
10. 'Earth Hour' is a global event that encourages people to
- a) Use more electricity
 - b) Turn off non-essential lights for one hour to show commitment to the planet
 - c) Drive cars for an hour
 - d) Burn fossil fuels

11. World Ozone Day' is celebrated on September 16 to commemorate
- a) The discovery of ozone
 - b) The signing of the Montreal Protocol
 - c) The first use of CFCs
 - d) The day the ozone layer disappeared
12. A resource that can be revive naturally over short periods is termed
- a) Non-renewable
 - b) Renewable
 - c) Metallic
 - d) Fossil
13. Dr. Salim Ali was well known
- a) Limnologist
 - b) Ornithologist
 - c) Politician
 - d) Microbiologist
14. Indian Prime minister who played significant role in conservation of wild life
- a) Rajiv Gandhi
 - b) Indira Gandhi
 - c) Manmohan Singh
 - d) AB Vajpai
15. Which of the following is a non-renewable resource?
- a) Solar energy
 - b) Wind energy
 - c) Natural gas
 - d) Timber from sustainably managed forests

21. What is troposphere?
- a) Portion of air
 - b) Portion of water
 - c) Lowest layer of atmosphere where we survive
 - d) Portion of sky
22. Atmospheric humidity is measured by
- a) Auxanometer
 - b) Photometer
 - c) Hygrometer
 - d) None
23. Study of inter-relationship between organisms and their environment is called
- a) Ecology
 - b) Ecosystem
 - c) Phytogeography
 - d) Ethology
24. An example of an abiotic component
- a) Plants
 - b) Soil
 - c) Animals
 - d) Bacteria
25. The atmosphere extends upto a height of about 10,000 km. It is divided into the following four thermal layers 1) Mesosphere 2) Stratosphere 3) Thermosphere 4) Troposphere. The correct sequence of these layers starting from the surface of the Earth upwards is:
- a) 2, 4, 1,3
 - b) 4,2, 1,3
 - c) 4,2,3,1
 - d) 2,4,3,1

31. Which ecological pyramid is always upright?
- a) Pyramid of number
 - b) Pyramid of biomass
 - c) Pyramid of energy
 - d) Pyramid of number and biomass
32. The largest reservoir of nitrogen in our planet is
- a) Ocean
 - b) Atmosphere
 - c) Biosphere
 - d) Fossil fuels
33. Product of photosynthesis is
- a) Carbon dioxide
 - b) Water
 - c) Oxygen
 - d) Chlorophyll
34. Greenhouse effect is linked to
- b) Sulphur dioxides
 - c) Carbon dioxides
 - d) Carbon monoxides
 - a) Nitrogen oxides
35. Main source of acid rain is
- a) Sulphur dioxide
 - b) Nitrogen
 - c) Carbon dioxide
 - d) Carbon monoxide

36. Sustainable development means
- a) Meeting present needs without compromising on future needs
 - b) Progress of human beings
 - c) Balance between human
 - d) All of the above needs and the ability of earth to provide the resources
37. The method of rainwater harvesting which can be adopted by individual house owners is
- a) Construction of recharge trenches
 - b) On channel storage of water
 - c) Creation of new water bodies
 - d) Roof-top rainwater harvesting
38. An example of nitrogen fixing bacteria in the soil
- a) Rhizobium
 - b) Nostoc
 - c) Azotobacter
 - d) Nitrobacter
39. Noise is measured by the unit
- a) Hertz
 - b) Joule
 - c) Decibel
 - d) Seconds
40. Ozone day is observed on
- a) 3rd January
 - b) 16th September
 - c) 10th November
 - d) 26th March

59. Bishnoi women is connected to
- a) Hindi Film
 - b) Chipko movement
 - c) Climate change
 - d) Women rights
60. Causative organisms of Malaria
- a) Bacteria
 - b) Fungus
 - c) Plasmodium
 - d) Virus
61. Death rate of the population
- a) Mortality
 - b) Viability
 - c) Natality
 - d) Vitality
62. Ear muffs or Cotton plugs are used to reduce pollution of.....
- a) Air
 - b) Noise
 - c) Thermal
 - d) Nuclear
63. El Nino is
- a) a climate cycle in the Pacific Ocean impacting global weather patterns
 - b) Cold current in the Atlantic influencing South American weather
 - c) An annual underwater phenomenon affecting global weather
 - d) A sub-saharan hot wind affecting global climate.
64. Largest source of air pollution in cities are
- a) Industries
 - b) Sewage
 - c) Automobiles
 - d) Tanneries

71. The Ramsar Convention is an international treaty for the conservation and sustainable use of:
- a) Forests
 - b) Wetlands
 - c) Deserts
 - d) Mountains
72. LED stands for
- a) Light Emitting Device
 - b) Light Emitting Diode
 - c) Light Encryption Device
 - d) Light Event Detector
73. The following is the correct food chain of an aquatic ecosystem
- a) Phytoplankton → Zooplankton → Fish → Bird → Vulture
 - b) Phytoplankton → Fish → Zooplankton → Bird → Vulture
 - c) Zooplankton → Phytoplankton → Vulture → Fish → Bird
 - d) Fish → Zooplankton → Phytoplankton → Bird → Vulture
74. An estuary is the place where
- a) Rich in nutrients
 - b) Usually support an abundance of fish
 - c) River joins with the sea
 - d) All the above

75. Biodiversity comprises
- a) Genetic diversity
 - b) Species diversity
 - c) Ecosystem diversity
 - d) All the above
76. Sulphur dioxide and nitrogen oxides are transported by prevailing winds they form secondary pollutants such as nitric acid vapour, droplets of sulfuric acid descends on earth surface is called
- a) Rain
 - b) Acid rain
 - c) Basic rain
 - d) Ice rain
77. Cigarette smoking is responsible for the greatest exposure to
- a) Carbon monoxide
 - b) Nitric oxide
 - c) Carbon dioxide
 - d) Sulphur dioxide
78. CPCB means
- a) Committee of Pollution Control Board
 - b) Central Pollution Control Board
 - c) Central Population Control Board
 - d) Committee of Population Control Board
79. The Richter is an instrument which is used to measure the seismic waves during Earthquake
- a) Richard Feynman
 - b) Neils Bohr
 - c) Albert Einstein
 - d) Charles Francies Richter

80. Tuberculosis is caused by
- a) *Mycobacterium tuberculosis*
 - b) *Cynobacterium tuberculosis*
 - c) *Cynobacterium tuberosis*
 - d) *Mycobacterium tuberosis*
81. World environment days is celebrated on
- a) 5th June
 - b) 10th June
 - c) 16th March
 - d) 20th Feb.
82. What is full form of CFC?
- a) Chlorofluorocarbon
 - b) Chlorinefluorocarbon
 - c) Chlorofluridcarbon
 - d) Chromatefluorocarbon
83. The concept of "carrying capacity" refers to the
- a) Maximum number of people that can be sustained by a given environment
 - b) Speed of an vehicle
 - c) Weight a bridge can hold
 - d) Amount of money in an economy

84. SDG 6 focuses on
- a) Clean Water and Sanitation
 - b) Affordable and Clean Energy
 - c) Climate Action
 - d) Life on Land
85. The three pillars of sustainability are often represented as overlapping circles for:
- a) Environment, Economy, and Society
 - b) Air, Water, and Land
 - c) Local, National, and Global
 - d) Past, Present, and Future
86. The phrase "Meeting the needs of the present without compromising the ability of future generations to meet their own needs" defines:
- a) Economic growth
 - b) Sustainable development
 - c) Environmental literacy
 - d) The Precautionary Principle
87. Soil erosion is caused by
- a) Deforestation
 - b) Farming and mining
 - c) Overgrazing by cattle
 - d) All the above

94. Biomass energy is derived from
- a) Cattle dung
 - b) Wood
 - c) Agriculture wastes
 - d) All the above
95. Fuel cells generate electricity using the energy of
- a) Fossil fuels
 - b) Solar power
 - c) Nuclear energy
 - d) Chemical reactions
96. Which of the following are commonly used in fermentation process?
- a) Bacteria
 - b) Yeast
 - c) Mushrooms
 - d) Virus
97. Prolonged exposure to high levels of noise pollution can cause
- a) Skin diseases
 - b) Hearing loss and stress-related illnesses
 - c) Improved concentration
 - d) Enhanced vision
98. The Chipko Movement in India is primarily associated with
- a) Anti-nuclear protests
 - b) Protection of wildlife
 - c) Conservation of forests through hugging trees
 - d) River pollution control

99. In vermi-composting are used to produce compost.

a) Algae

b) Fungi

c) Bacteria

d) Earthworms

100. The place where the worst nuclear disaster took place is

a) Washington

b) Chernobyl

c) Bhopal

d) Thailand



ROUGH WORK