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ENT - 45

Total No. of Pages : 17

**M. Sc. Re - Entrance Examination, 2026**  
**Environmental Science**  
**Subject Code : 58727**

Day and Date : Wednesday, 24-06-2026

Total Marks : 100

Time : 10.30 a.m. to 12.00 p.m.

**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.

1. Process whereby water bodies receive excess nutrients that stimulate excessive plant growth is called as .....

- |               |                      |
|---------------|----------------------|
| a) Coli-count | b) Self purification |
| c) BOD        | d) Eutrophication    |

2. Which of the following is a greenhouse gas?

- |                    |                    |
|--------------------|--------------------|
| a) CO              | b) SO <sub>2</sub> |
| c) SO <sub>x</sub> | d) CO <sub>2</sub> |

3. Which of these are not right fit?

- |              |             |
|--------------|-------------|
| a) Cyclones  | b) typhoons |
| c) tornadoes | d) tremors  |

4. Behaviour of energy in the ecosystem is governed by .....

- |                           |                      |
|---------------------------|----------------------|
| a) Laws of thermodynamics | b) Entropy           |
| c) Enthalpy               | d) None of the above |

5. Sunder Lal Bahuguna is associated with .....
- a) Silent Valley Movement                      b) Chipko Movement  
c) Appiko Movement                              d) Baliyapal Movement
6. Acid rain is caused by emission of .....
- a) SO<sub>2</sub> and NO<sub>2</sub>                                      b) H<sub>2</sub>S  
c) CH<sub>4</sub>    d) none of the above
7. The Gir sanctuary is mainly for .....
- a) Rhino    b) Lion  
c) Tiger    d) Elephant
8. When the natality is equal to mortality, the population is at .....
- a) Stationary phase                                      b) Exponential phase  
c) Growth phase    d) All of these
9. The troposphere contains approximately ..... by mass of the entire atmosphere.
- a) 80-85%    b) 40-50%  
c) 50-70%    d) 20-30%
10. Ozone depletion is caused by .....
- a) CFC    b) CO<sub>2</sub>  
c) particulate matter                                      d) SO<sub>2</sub>
11. Which of the following ISO certificates is related to environment?
- a) ISO 2000    b) ISO 2001  
c) ISO 14001    d) ISO 14400

12. Isobars are lines drawn on a map through the places having .....
- a) Same ambient Temperature
  - b) Same atmospheric pressure
  - c) Same altitude above sea level
  - d) Same soil type
13. The World Environment Day is celebrated on .....
- a) 5<sup>th</sup> July
  - b) 5<sup>th</sup> December
  - c) 5<sup>th</sup> June
  - d) 5<sup>th</sup> February
14. Eutrophication means:
- a) Thermal change in water
  - b) Filling up of water body with extra nourishment
  - c) Solid waste
  - d) None of the above
15. Long form of BOD is:
- a) Biochemical Oxygen Demand
  - b) Biological Ozone Demand
  - c) Biochemical Ozone Demand
  - d) None of these
16. The main component of photochemical smog is .....
- a) Water vapour
  - b) Sulphur dioxide
  - c) Oxides of nitrogen
  - d) All of the above
17. Which of the following is not a vector-borne disease?
- a) Yellow fever
  - b) Dengue fever
  - c) Viral fever
  - d) Malaria

18. Atmospheric ozone layer which protect us from UV-B & C is getting depleted most by addition of .....
- a) Chloro flurocarbon                      b) Carbon monooxide  
c) Carbon dioxide                          d) Sulpur dioxide
19. Detritus food chain starts from .....
- a) Green plants                              c) Dead organic matter  
b) Grass                                      d) Phytoplankton
20. Acid rain reacts with marble and limestone to form .....
- a) Calcium carbonate                      b) Calcium hydroxide  
c) Calcium sulphate                        d) none of the above
21. The ecological pyramid always starts with the following at the base .....
- a) Decomposer                              b) Producer  
c) Consumer                                d) None of these
22. Conservation of biodiversity outside the natural habitat is called as
- a) Ex-situ                                      b) In-situ  
c) Conservation                            d) In-vivo
23. Which out of the following are the causes of soil erosion?
- a) Unrestricted grazing                      c) Deforestation  
b) Over cultivation                        d) All of the above
24. Red data book contains data of
- a) All plant species                        b) All animal species  
c) Threatened species                      d) Economically important species

25. Yellowing of Taj Mahal is an effect of
- a) Acid rain
  - b) Global warming
  - c) Ozone depletion
  - d) All of the above
26. Pollutants that are easily manageable and decomposable in nature are called .....
- a) Biodegradable pollutants
  - b) Non-biodegradable pollutants.
  - c) Renewable pollutants
  - d) None of these
27. Sustainable development means .....
- a) Meeting present needs without compromising on future needs.
  - b) Progress of human beings.
  - c) Balance between human needs and the ability of earth to provide the resources
  - d) all of the above
28. The final stable community in ecological succession is .....
- a) Climax
  - b) Pioneer
  - c) Sere
  - d) Carnivores
29. Which is a list of renewable resources?
- a) Petroleum, geothermal, wind
  - b) Natural gas, geothermal, hydropower
  - c) Natural gas, wind, biomass
  - d) Hydropower, solar, wind energy
30. The organic material of the solid waste will decompose
- a) By the flow of water
  - b) By the soil particles
  - c) By the action of microorganisms
  - d) By oxidation



38. The conversion of ammonia to nitrates is known as
- a) Denitrification
  - b) Nitrification
  - c) Ammonification
  - d) Nitrogen-fixation
39. Matter must be recycled again and again by an ecological process called
- a) Ecological pyramid
  - b) Ecological Succession
  - c) Biogeochemical cycle
  - d) Energy flow
40. The study that deals with the interaction of organisms with their environment
- a) Etiology
  - b) Botany
  - c) Ecology
  - d) Biology
41. Both power and manure are provided by .....
- a) Thermal plant
  - b) Nuclear plant
  - c) Biogas plant
  - d) Hydroelectric plant
42. Environmental impact assessment .....
- a) is the study of feasibility of a project
  - b) is a study of bio-physical characteristics of the environment that may result from a human action
  - c) Both a and b
  - d) None of the above
43. Where is the World's Largest Rain forest present?
- a) Amazone basin
  - b) Congo Basin
  - c) Indonesia
  - d) China



50. LPG mostly contains .....
- a) Methane
  - b) Butane Propane
  - c) Methane + Butane
  - d) Butane + Acetylene
51. Composting is a type of .....
- a) Physical treatment
  - b) Chemical treatment
  - c) Biological treatment
  - d) Thermal treatment
52. Coliform bacteria in water indicates .....
- a) Industrial pollution
  - b) Fecal contamination
  - c) Oil pollution
  - d) Heavy metal pollution
53. Nitrifying bacteria convert .....
- a) Nitrate to  $N_2$
  - b) Ammonia to Nitrite
  - c)  $N_2$  to Ammonia
  - d) Nitrite to Nitrate
54. Itai-itai disease is caused by .....
- a) Mercury
  - b) Lead
  - c) Cadmium
  - d) Arsenic
55. Biomagnification is always maximum in .....
- a) Producers
  - b) Primary consumers
  - c) Secondary consumers
  - d) Top carnivores
56. Primary pollutant from automobile exhaust is .....
- a)  $O_3$
  - b) PAN
  - c) CO
  - d)  $H_2SO_4$

57. CFCs mainly destroy ozone by releasing .....
- a) Fluorine
  - b) Carbon
  - c) Chlorine
  - d) Hydrogen
58. Full form of GIS is .....
- a) Global Information System
  - b) Geographic Information. System
  - c) Geological Information System
  - d) General Information System
59. LD50 refers to .....
- a) Lethal dose for 50% population
  - b) Lethal duration 50 days
  - c) Limit dose 50 mg
  - d) Low dose 50%
60. Leachate is produced in .....
- a) Incineration
  - b) Composting
  - c) Landfill
  - d) Pyrolysis
61. Largest source of CO<sub>2</sub> emission globally is .....
- a) Transportation
  - b) Electricity & heat production
  - c) Agriculture
  - d) Industry
62. Landsat is a .....
- a) Weather satellite
  - b) Communicatio n satellite
  - c) Earth observation satellite
  - d) Navigation satellite
63. Vermi wash is produced by .....
- a) Earthworms
  - b) Viruses
  - c) Bacteria
  - d) Plants

64. Which is NOT a renewable energy source?
- a) Biomass
  - b) Geothermal
  - c) Natural gas
  - d) Tidal
65. Albedo refers to .....
- a) Heat absorption
  - b) Reflectivity of earth surface
  - c) Rainfall intensity
  - d) Wind speed
66. Paris Agreement aims to limit global warming to
- a) 1.0°C
  - b) 1.5°C
  - c) 2.5°C
  - d) 3.0°C
67. Blue-green algae are actually
- a) Algae
  - b) Fungi
  - c) Bacteria
  - d) Lichens
68. Activated sludge process is a type of:
- a) Aerobic treatment
  - b) Anaerobic treatment
  - c) Physical treatment
  - d) Chemical treatment
69. Which of the following is a major cause of air pollution?
- a) Planting trees
  - b) Using electric vehicles
  - c) Burning fossil fuels
  - d) Recycling plastic
70. What type of pollution is caused by loud sounds?
- a) Water pollution
  - b) Light pollution
  - c) Air pollution
  - d) Noise pollution

71. Which of the following is a biodegradable?
- a) Plastic
  - b) Glass
  - c) Vegetable peels
  - d) Aluminum
72. Rio prospecting refers to .....
- a) Exploring forests for timber
  - b) Prospecting oil beneath biodiversity-rich areas
  - c) Searching for valuable genetic and biochemical resources in biodiversity
  - d) Mapping species distribution for tourism
73. A keystone species is one that:
- a) Is the most abundant in an ecosystem
  - b) Has little effect on ecosystem functioning
  - c) Plays a critical role in maintaining ecosystem structure
  - d) Exists only in biodiversity hotspots
74. What is the major environmental concern caused by micro plastics?
- a) They increase soil fertility
  - b) They are easily biodegradable
  - c) They accumulate in the food chain causing harm to wildlife and humans
  - d) They absorb greenhouse gases
75. In vermi-composting ..... are used to produce compost.
- a) Algae
  - b) Fungi
  - c) Bacteria
  - d) Worms

76. .... National Park is specially developed for birds.
- a) Sanjay Gandhi
  - b) Keoladeo
  - c) Kanha
  - d) Corbett
77. The place where the worst nuclear disaster took place is .....
- a) Washington
  - b) Chernobyl
  - c) Bhopal
  - d) Japan
78. ....is the poisonous gas leaked during Bhopal gas tragedy
- a) PVC
  - b) MIC
  - c) Hydrogen sulphide
  - d) Teflon
79. Long form of GIS ..... (which is used as a tool for environmental planning).
- a) Geological Information system
  - b) Geographical Information System
  - c) Geographical Information Source
  - d) Geological Index System
80. .... is defined as an ecological state of a species being unique to a specific geographic location.
- a) Exotic species
  - b) Endemic species
  - c) Ecosystem
  - d) None of the above
81. Smog" is a mixture of .....
- a) Smoke and Fog
  - b) Snow and Fog
  - c) Snow and dust
  - d) SO<sub>2</sub> and Fog

82. The pyramid of energy is always .....
- a) Upright
  - b) Inverted
  - c) Spindle shaped
  - d) Round
83. The World Wetland Day is celebrated on .....
- a) 22<sup>nd</sup> March
  - b) 5<sup>th</sup> June
  - c) 16<sup>th</sup> September
  - d) 2<sup>nd</sup> February
84. Richter scale measures .....
- a) Wind Intensity
  - b) Oceanic Depth
  - c) Intensity of tides
  - d) Earthquake Intensity
85. Food chains are part of .....
- a) energy pyramids
  - b) energy cycles
  - c) food webs
  - d) prey-predator relationship
86. Air pollution control can be done by .....
- a) Raw material change
  - b) Dilution of source
  - c) Proper planning of industry location
  - d) All the above
87. Fluorosis is caused by .....
- a) Nitrite
  - b) Nitrate
  - c) Lead
  - d) Fluoride
88. Stratospheric ozone layer blocks most of .....
- a) Gamma rays
  - b) UV rays
  - c) Visible light rays
  - d) X-rays

89. The lowermost air layer near earth surface is .....
- a) Ionosphere
  - b) Exosphere
  - c) Troposphere
  - d) Stratosphere
90. The largest landmass on earth is .....
- a) Eurasia
  - b) Antarctica
  - c) Australia
  - d) North America
91. Sunderbans contain .....
- a) Mangrove Plants
  - b) Alpine tree
  - c) Teak forest
  - d) Grass
92. Which metal is associated with Minamata disease?
- a) Hg
  - b) Cd
  - c) Cr
  - d) Pb
93. .... is an example of first commercially produced bacterial pesticide.
- a) Fusarium
  - b) Mycorrhiza
  - c) E. coli
  - d) Bacillus thuringiensis
94. Pollution Under Control certificate involves the monitoring of .....
- a) Carbon monoxide
  - b) Unburnt hydrocarbon
  - c) both
  - d) None
95. Beer - Lambert law defines .....
- a) The degree of absorption monochromatic light of by a homogenous medium
  - b) Atomic absorption spectrophotometry
  - c) Measures infrared radiation
  - d) None of the above.

96. CNG stands for .....
- a) Compressed Natural gas
  - b) Common Natural gas
  - c) Compressed National gas
  - d) Certified National gas
97. The average pH of rain water is .....
- a) 3.2
  - b) 5.0
  - c) 6.5
  - d) 5.6
98. PV Cells in solar cell means .....
- a) Solar Energy is converted into mechanical energy
  - b) Semiconductor devices that directly convert sunlight (light energy) into electrical energy (electricity) using photovoltaic effect
  - c) Water power into electrical energy
  - d) None of these
99. Resource is one .....
- a) which is always available in nature
  - b) it is used by all living organisms
  - c) exists in natural form
  - d) which becomes one when used by human being
100. Which of the following organization work for biodiversity conservation?
- a) WWF
  - b) IUCN
  - c) Green Peace
  - d) All of these



**- Rough Work -**