

Seat No.

Total No. of Pages : 21

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

Day and Date : Tuesday, 21/07/2026**Total Marks : 100****Time : 10:30 am to 12:00 pm**

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. is on the borderline of living and non-living

a) Lichen

b) Bacteria

c) Algae

d) Virus

2. Which of the following organization work for biodiversity conservation?

a) FFF

b) IUCN

c) Green Peace

d) All of these

3. Which of the following is a greenhouse gas?

a) CO

b) SO₂c) SO_xd) CO₂

4. Which of these are not right fit?
 - a) Cyclones
 - b) typhoons
 - c) tornadoes
 - d) tremors
5. Behaviour of energy in the ecosystem is governed by
 - a) Laws of thermodynamics
 - b) Entropy
 - c) Enthalpy
 - d) None of the above
6. Sunder Lal Bahuguna is associated with
 - a) Silent Valley Movement
 - b) Chipko Movement
 - c) Appiko Movement
 - d) Baliyapal Movement
7. Acid rain is caused by emission of
 - a) SO_2 and NO_2
 - b) H_2S
 - c) CH_4
 - d) none of the above
8. The Gir sanctuary is mainly for
 - a) Rhino
 - b) Lion
 - c) Tiger
 - d) Elephant

9. When the natality is equal to mortality, the population is at
 - a) Stationary phase
 - b) Exponential phase
 - c) Growth phase
 - d) All of these
10. The troposphere contains approximately by mass of the entire atmosphere.
 - a) 80-85%
 - b) 40-50%
 - c) 50-70%
 - d) 20-30%
11. Ozone depletion is caused by
 - a) CFC
 - b) CO₂
 - c) particulate matter
 - d) SO₂
12. Which of the following ISO certificates is related to environment?
 - a) ISO 2000
 - b) ISO 2001
 - c) ISO 14001
 - d) ISO 14400
13. 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
14. The World Environment Day is celebrated on
 - a) 5th July
 - b) 5th December
 - c) 5th June
 - d) 5th February

15. Eutrophication means:
- a) Thermal change in water
 - b) Filling up of water body with extra nourishment
 - c) Solid waste
 - d) None of the above
16. Long form of BOD is:
- a) Biochemical Oxygen Demand
 - b) Biological Ozone Demand
 - c) Biochemical Ozone Demand
 - d) None of these
17. The main component of photochemical smog is
- a) Water vapour
 - b) Sulphur dioxide
 - c) Oxides of nitrogen
 - d) All of the above
18. Which of the following is not a vector-borne disease?
- a) Yellow fever
 - b) Dengue fever
 - c) Viral fever
 - d) Malaria
19. Atomospheric 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

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
31. Which of the following was started in 1973 to save the evergreen tropical forest in the Palakkad district of Kerala, India from being flooded by a hydroelectric project?
- a) Chipko Movement
 - b) Silent Valley Movement
 - c) Appiko Movement
 - d) Jungle Bachao Andola
32. National Park associated with conservation of one-horned rhinoceros
- a) Kaziranga
 - b) Ranthambore
 - c) Corbette
 - d) Valley of flowers

33. A disease not caused by water pollution is
 - a) Jaundice
 - b) Cholera
 - c) AIDS
 - d) Dysentery
34. The 3 R principle in waste management stand for
 - a) Reduce, Reuse and Recycle
 - b) Reduce, regain and reuse
 - c) Reduce, reset and reform
 - d) Reduce, retain and regain
35. The biggest nuclear accident occurred in
 - a) New York
 - b) Bhopal
 - c) Chernobyl
 - d) Beijing
36. The Indian Environmental Protection Act. Came into force in
 - a) 1976
 - b) 1996
 - c) 1986
 - d) 1988
37. Plants that can grow in dry places are called
 - a) Hydrophytes
 - b) Mesophytes
 - c) Halophytes
 - d) Xerophytes
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) Amazon basin
 - b) Congo Basin
 - c) Indonesia
 - d) China

44. The cutting down of trees and setting them on fire and raising crops on the resulting ash is called

a) Jhum cultivation.	b) Crop rotation
c) Terrace farming	d) Taungya system
45. Which of the following is said to be a biodegradable waste?

a) Plastics	b) Glasses
c) Eggshell	d) Polythene
46. Ozone-hole' means

a) A large sized hole in the ozone layer
b) Thinning of the ozone layer
c) Small holes scattered in the ozone layer
d) Thickening of ozone in the ozone layer
47. IRS stands for

a) Indian Remote sensing
b) Innovative Remote sensing
c) Indian Remote services
d) International research on science
48. The uppermost layer of earth is

a) Mantle	b) Crust
c) Core	d) None of these

49. Valley of flowers is situated in
- a) Hawaii
 - b) Virunga Mountain
 - c) Garwal Himalaya
 - d) Alps
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 consumers
 - b) Primary
 - 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 CO₂ emission globally is
- a) Transportation
 - b) Electricity & heat production
 - c) Agriculture
 - d) Industry
62. Landsat is a
- a) Weather satellite
 - b) Communication 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
 - e) 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. Bio 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 GPS (which is used as a tool for environmental monitoring)
- a) Geological Positioning system
 - b) Global Position System
 - c) Geographical people Source
 - d) Geological Pin 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) SO₂ 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) 22nd March b) 5th June
- c) 16th September d) 2nd February
84. Richter scale measures
- a) Wind Intensity b) Oceanic Depth
- c) Intensity 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 change material
 - 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

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 the 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) FFF b) IUCN
- c) Green Peace d) All of these



ROUGH WORK