

Seat No.	
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ENT - 07

Total No. of Pages : 20

**PG ENTRANCE EXAMINATION, 2024**  
**DEPARTMENT OF ENVIRONMENTAL SCIENCE**  
**Subject Code : 58727**

Day and Date : Sunday, 19-05-2024

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. Which of the following organization work for biodiversity conservation?
  - a) WWF
  - b) IUCN
  - c) Green Peace
  - d) IPCC
2. Which international agreement aims to combat climate change by reducing greenhouse gas emissions?
  - a) Kyoto Protocol
  - b) Montreal Protocol
  - c) Paris Agreement
  - d) Rio Declaration
3. In vermi-composting ..... are used to produce compost.
  - a) Algae
  - b) Fungi
  - c) Bacteria
  - d) Worms
4. Carbon monoxide gas affects humans by forming ..... in the blood.
  - a) HbCO
  - b) HbCO<sub>2</sub>
  - c) HbCO<sub>3</sub>
  - d) Hb O<sub>2</sub>

5. ....National Park is specially developed for birds.
- a) Sanjay Gandhi
  - b) Keoladeo
  - c) Kanha
  - d) Corbett
6. Salinization is accumulation of salt in .....
- a) Water
  - b) Soil
  - c) Body
  - d) animal
7. Forest protection campaign started in Karnataka is known as .....
- a) Chipko Movement
  - b) Appico Movement
  - c) Joint Forest Management
  - d) Afforestation Movement
8. What is GIS?
- a) Geological Information system
  - b) Geographical information system
  - c) Geographical information source
  - d) Geological index system
9. The place where the worst nuclear disaster took place is .....
- a) Washington
  - b) Chernobyl
  - c) Bhopal
  - d) Japan
10. The main source of energy in the environment is .....
- a) Solar energy
  - b) Chemical energy
  - c) Nuclear energy
  - d) Bio-electrical energy

11. Photosynthesis is found in .....
- a) Consumers
  - b) Producers
  - c) Decomposers
  - d) Parasites
12. .... is the phenomenon where Earth retains heat.
- a) Air pollution
  - b) Green house effect
  - c) Global effect
  - d) Land pollution
13. World Earth Day is celebrated on .....
- a) 5th June
  - b) 22nd March
  - c) 22nd April
  - d) 16th October
14. Smog" is a mixture of .....
- a) Smoke and Fog
  - b) Snow and Fog
  - c) Snow and dust
  - d) SO<sub>2</sub> and Fog
15. One of the following is not a nutrition deficiency disease.
- a) Kwashiorkor
  - b) Marasmus
  - c) Goiter
  - d) Plague
16. .... energy is converted into electrical energy by a solar cell.
- a) Chemical
  - b) Solar
  - c) Wind
  - d) Magnetic
17. Carrier of Dengue disease is .....mosquito.
- a) Culex
  - b) Aedes
  - c) Anophelis
  - d) House fly

18. Wildlife Week is celebrated on .....
- a) 1<sup>st</sup> to 7<sup>th</sup> June                      b) 1<sup>st</sup> to 7<sup>th</sup> February
- c) 15<sup>th</sup> to 21<sup>st</sup> October                d) 1<sup>st</sup> to 7<sup>th</sup> October
19. The science that deals with the relationship of various organisms with their environment is known as .....
- a) Ecology                                b) Anthropology
- c) Geology                                 d) Economics
20. The pyramid of energy is always .....
- a) Upright                                 b) Inverted
- c) Spindle shaped                      d) Round
21. 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
22. Human population growth curve is a ..... curve.
- a) Parabola shaped                    b) S shaped
- c) Zig zag                                 d) J shaped
23. The unit of sound measurement is .....
- a) Joules                                  b) Calories
- c) Decibel                                 d) Hertz

24. The chemical responsible for Ozone hole is .....

- a) CFC
- b) H<sub>2</sub>S
- c) CH<sub>4</sub>
- d) NO<sub>2</sub>

25. .... problem is not created by noise pollution.

- a) Hypertension
- b) Diarrhea
- c) Deafness
- d) Irritation

26. .... are the three R's in environmental protection.

- a) Read, Register, Recall
- b) Random, Register, Recollect
- c) Reduce, Rebuild, Restrict
- d) Reduce, Reuse, Recycle

27. Greenhouse Effect is .....

- a) Cultivation of crops in green house to conserve heat
- b) Trapping of heat energy by upper atmosphere
- c) Increase of heat due to atmospheric pollution
- d) Trapping of solar energy due to carbon dioxide gas

28. Ozone layer is present in .....

- a) Troposphere
- b) Mesosphere
- c) Stratosphere
- d) Lithosphere

29. The days and nights are formed because of .....
- a) Earth's rotation
  - b) Earth's revolution
  - c) Sun's rotation
  - d) Sun's revolution
30. Non-green plants like mushroom can't make their own food because .....
- a) They lack chlorophyll
  - b) They are too small
  - c) They lack roots to suck water
  - d) They lack leaves
31. Self-purification is a phenomenon associated with .....
- a) Flowing streams
  - b) Ground water
  - c) Sewage flow in sewers
  - d) Dams
32. Heat is energy in the process of being transferred from .....
- a) Low pressure to high pressure
  - b) Hot object to cold object
  - c) High pressure to low pressure
  - d) Cold object to hot object
33. Highest percentage of gas in air is .....
- a) Oxygen
  - b) Carbon dioxide
  - c) Carbon monoxide
  - d) Nitrogen

34. .... is not having a single river in it.
- a) Maharashtra
  - b) Lakshdhwip
  - c) Assam
  - d) Tripura
35. The loss of water from plant leaves is called as .....
- a) Respiration
  - b) Transpiration
  - c) Excretion
  - d) Evaporation
36. Sudden increase in the population of a species is .....
- a) Population explosion
  - b) Population growth
  - c) Over population
  - d) Over growth
37. Cyclones are generally formed due to .....
- a) Low atmospheric pressure
  - b) High atmospheric pressure
  - c) Heavy rains
  - d) Low rains
38. Which one of the following birds can rotate its neck backwards to a large extent?
- a) Mynah
  - b) Sparrow
  - e) Crow
  - d) Owl
39. Full form of CNG is .....
- a) Common National Gas
  - b) Common Natural Gas
  - c) Compressed Natural Gas
  - d) Certified Natural Gas

40. The Periyar National Park (PNR) is located in ..... state.
- a) Orissa
  - b) Rajasthan
  - c) Karnataka
  - d) Kerala
41. The Red List of IUCN provides the list of .....
- a) Endemic species
  - b) Isolated species
  - c) Threatened species
  - d) Exotic species
42. .... is not an air pollutant.
- a) Phosphate
  - b) Pollen grains
  - c) Hydrocarbons
  - d) Sulphur dioxide
43. .... animals are found in wild habitat in India.
- a) Snow leopard
  - b) Gorilla.
  - c) Chimpanzee
  - d) Cheetah
44. The Siberian Crane, an endangered migratory bird is a regular visitor of.....
- a) Vedanthangal bird sanctuary
  - b) Karnala bird sanctuary
  - c) Ranganathittu bird sanctuary
  - d) Keoladeo national park
45. The Western Ghats Ecology Expert Panel (WGEEP) is headed by.....
- a) R. K. Pachauri
  - b) Madhav Gadgil
  - c) Vandana Shiva
  - d) K. Kasturinandan



46. The Environment (Protection) Act of India was enacted in .....
- a) 1986
  - b) 1974
  - c) 1977
  - d) 2002
47. Increase in the concentration of pollutants in higher trophic levels is known as .....
- a) Biodegradation
  - b) Eutrophication
  - c) Bio magnification
  - d) Recycling
48. Phytoplanktons are members of ..... ecosystem.
- a) Forest
  - b) Aquatic
  - c) Desert
  - d) Grassland
49. The chlorine, which serves as a disinfectant is .....
- a) Free chlorine
  - b) Free residual chlorine
  - c) Chlorine demand
  - d) Residual demand
50. The process of amplification of specific DNA sequences by an enzymatic process is termed as .....
- a) Amplification
  - b) Translation
  - c) Polymerase Chain Reaction
  - d) Microarray

51. One of the best solution to get rid of nonbiodegradable waste is .....

- a) Burning
- b) Buring
- c) Dumping
- d) Recycling

52. The term 'Green Revolution is coined by .....

- a) M. S. Swaminathan
- b) William Gaud
- c) Charles Elton
- d) Eugene Odum

53. Alum is used as .....

- a) A disinfectant of water
- b) coagulant of water
- c) A fertilizer
- d) A smelling agent of water

54. All components and individuals in an ecosystem are .....

- a) Indispensible
- b) Interdependent
- c) Dispensible
- d) Individualistic

55. The concept of carbon credit is originated from .....

- a) Earth summit
- b) Montreal protocol
- c) Kyoto protocol
- d) COP

56. .... planet is surrounded by a ring.

- a) Venus
- b) Moon
- c) Saturn
- d) Mars

57. Wavelength range of visible light is .....

- a) 400-500 nm
- b) 300-400 nm
- c) 390-780 nm
- d) 390-1000 nm

58. The metal constituent of chlorophyll is .....

- a) Calcium
- b) Magnesium
- c) Selenium
- d) Manganese

59. .... is on the borderline of living and non-living.

- a) Lichen
- b) Bacteria
- c) Algae
- d) Virus

60. What is source of carbon monoxide?

- a) Incomplete burning of wood
- b) Fuel combustion
- c) Exhaust fumes of motor vehicles
- d) All of these

61. Which of the following locations is a super-volcano?

- a) Yellowstone National Park
- b) Mt Rainier
- c) Iceland
- d) Mt Kilimanjaro

62. A place where an earthquake originates is called the .....

- a) Focus
- b) Tsunami
- c) Fault Line
- d) Epicenter

63. As the magnitude of natural disasters increases their frequency of occurrence.....

- a) Increases
- b) decreases
- c) remains the same
- d) varies over time

64. What is source of sulphur dioxide?
- a) Power stations and industries using fossil fuels
  - b) Exhaust fumes of motor vehicles
  - c) Incomplete burning of wood
  - d) None of these
65. National Institute of Disaster management is located at?
- a) Poona
  - b) Midnapur
  - c) New Delhi
  - d) Calcutta
66. What is source of chlorofluorocarbons?
- a) Aerosol sprays foams
  - b) Exhaust fumes of motor vehicles
  - c) Incomplete burning of wood
  - d) Both A and B
67. The term Tsunami is coined from?
- a) Chinese
  - b) Indian term
  - c) German term
  - d) Japanase term
68. Which of the following Environmentalists first gave the concept of Biodiversity "hotspots"?
- a) Gaylord Nelson
  - b) Norman Myers
  - c) John Muir
  - d) Julia "Butterfly" Hill

69. Which among the following terms of utmost significance in the dynamics of resource management was coined in the 'Brundtland Commission Report'?
- a) Polluter-Pays Principle
  - b) Sustainable development
  - c) Inclusive Growth
  - d) Carrying Capacity
70. Which of the following has maximum speed?
- a) Air
  - b) Water Current
  - c) Sound
  - d) Light
71. An aquatic plant introduced from America to check pollution turned out to be a troublesome weed in Indian water bodies. The name of this 'invasive alien species' is:
- a) Opuntia
  - b) Acgilops
  - c) Eichhornia
  - d) Pistia
72. Which one of the following is a useful biological indicator of Sulphur-dioxide pollution?
- a) Bryophytes
  - b) Algal blooms
  - c) Pseudomonas
  - d) Lichens

73. The word 'ecology (Ökologie) was coined in 1866 by:
- a) Charles Darwin
  - b) Robert Whittaker
  - c) Arthur Tansley
  - d) Ernst Haeckel
74. In an ecotone, the species which become abundant are called:
- a) Edge species
  - b) Keystone species
  - c) Endemic species
  - d) Foster species
75. .... launched efforts to arrest the depletion of the fragile ozone layer.
- a) Montreal Protocol
  - b) Geneva Protocol
  - c) Kyoto Protocol
  - d) Nagoya Protocol
76. Who among the following is the author of the famous book "Silent Spring" which is credited for being of much help in launching the environment movement?
- a) Ian Lowe
  - b) Pat Hutchings
  - c) Mike Kingsford
  - d) Rachel Carson
77. Smog is the mixture of .....
- a) Smoke + Fog
  - b) Dust + Smoke
  - c) Smoke + water
  - d) Dust + Water
78. Which of the following technique is used to control the water pollution?
- a) Reverse osmosis
  - b) Adsorption Process
  - c) Ion Exchange Process
  - d) All of the above

79. The lowest region of atmosphere near to the earth surface is known as

.....

- a) Stratosphere
- b) Troposphere
- c) Thermosphere
- d) Exosphere

80. Depletion of Ozone layer causes .....

- a) Skin cancer
- b) Blood cancer
- c) Viral Infections
- d) Lung diseases

81. Taj Mahal is affected by .....

- a) Nitric oxide
- b) Carbon dioxide
- c) Sulphur oxide
- d) Ammonia

82. COD stands for .....

- a) Controlled Oxygen Demand
- b) Chemical Oxygen Demand
- c) Chlorinated Oxygen Demand
- d) Clouds causing Oxygen Demand.

83. The main components for acid rain in atmosphere are .....

- a) Oxides of Sulphur and Nitrogen
- b) Oxides of Oxygen and Nitrogen
- c) Oxides of Carbon
- d) None of these

84. The major air pollution source in big cities is due to .....
- a) Burning of coal
  - b) Domestic Exhaust
  - c) Burning of cooking gas
  - d) Vehicular exhaust
85. Which of the following is responsible for Greenhouse effect?
- a) Glass roof
  - b) Aluminium roof
  - c) Metallic Sheet
  - d) Jute roof
86. The pH of Acid rain is .....
- a) More than 5.6
  - b) Less than 5.6
  - c) Between 5.6-7.5
  - d) Between 5.6-8.5
87. Catalytic converters used in .....
- a) Vehicles
  - b) ETP
  - c) Stack
  - d) Reverse osmosis
88. Notification of EIA of development projects is covered under .....
- a) Environmental Impact Assessment Act, 1974
  - b) Environment (Protection) Act, 1986
  - c) The Factories Act, 1948
  - d) The Environment Conservation Act 1994
89. KYOTO Protocol is related to
- a) Global warming
  - b) Ozone depletion
  - c) Air Pollution
  - d) All of above.





96. Which of the following is a major contributor to ocean acidification?

- a) Deforestation
- b) Industrial waste
- c) Plastic pollution
- d) Increased carbon dioxide levels

97. What is the process of converting waste materials into reusable materials called?

- a) Incineration
- b) Composting
- c) Recycling
- d) Landfilling

98. Which biome is characterized by low temperatures, little precipitation, and permafrost?

- a) Desert
- b) Rainforest
- c) Tundra
- d) Grassland

99. Which of the following is a major source of indoor air pollution?

- a) Vehicle emissions
- b) Industrial smokestacks
- c) Radon gas
- d) volcanic eruptions

100. The process of soil erosion can be reduced by .....

- a) Overgrazing
- b) Deforestation
- c) Planting trees
- d) Increasing irrigation



**- Rough Work -**

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