

Seat  
No.

ENT-43

Total No. of Pages : 16

**Shivaji University, Kolhapur**  
**Department of Environmental Science,**  
**Entrance Examination 2023**  
**Subject Code : 58727**

**Day and Date : Tuesday, 08-08-2023**

**Total Marks : 100**

**Time : 10.30 am To 12.00 noon**

1. According to Recycled Plastics (Manufacture and Usage) Rules 1999, the minimum thickness of carry bags shall not be less than
  - a) 10 microns
  - b) 20 microns
  - c) 30 microns
  - d) 50 microns
2. ....is the first step of sewage treatment.
  - a) Precipitation
  - b) Chlorination
  - c) Sedimentation
  - d) Aeration
3. Some organisms live together and share shelter and nutrients. This is called
  - a) Predation
  - b) Autotrophs
  - c) Symbiotic relationship
  - d) Heterotrophs
4. The bacterium which provides nitrogen to the leguminous plants is .....
  - a) Rhizobium
  - b) Fungi
  - c) Yeast
  - d) Lichens
5. What is the primary cause of the greenhouse effect?
  - a) Deforestation
  - b) Solar radiation
  - c) Ozone depletion
  - d) Greenhouse gas emissions
6. Which of the following is a major contributor to ocean acidification?
  - a) Deforestation
  - b) Industrial waste
  - c) Plastic pollution
  - d) Increased carbon dioxide levels

7. What is the process of converting waste materials into reusable materials called?
- a) Incineration
  - b) Composting
  - c) Recycling
  - d) Landfilling
8. Which biome is characterized by low temperatures, little precipitation, and permafrost?
- a) Desert
  - b) Rainforest
  - c) Tundra
  - d) Grassland
9. Which of the following is a major source of indoor air pollution?
- a) Vehicle emissions
  - b) Industrial smokestacks
  - c) Radon gas
  - d) volcanic eruptions
10. The process of soil erosion can be reduced by .....
- a) Overgrazing
  - b) Deforestation
  - c) Planting trees
  - d) Increasing irrigation
11. Taj Mahal is affected by .....
- a) Nitric oxide
  - b) Carbon dioxide
  - c) Sulphur oxide
  - d) Ammonia
12. COD stands for .....
- a) Controlled Oxygen Demand
  - b) Chemical Oxygen Demand
  - c) Chlorinated Oxygen Demand
  - d) Clouds causing Oxygen Demand

13. 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
14. 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
15. Which of the following is responsible for Greenhouse effect?
- a) Glass roof
  - b) Aluminium roof
  - c) Metallic Sheet
  - d) Jute roof
16. 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
17. Catalytic converters used in
- a) Vehicles
  - b) ETP
  - c) Stack
  - d) Reverse osmosis
18. 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

19. KYOTO Protocol is related to
- a) Global warming
  - b) Ozone depletion
  - c) Air Pollution
  - d) All of above.
20. Conference on Human Environment was held in .....
- a) Rio d Janerio
  - b) Stockhlom
  - c) Vienna
  - d) Montrea
21. 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) Aegilops
  - c) Eichhornia
  - d) Pistia
22. Which one of the following is a useful biological indicator of Sulphur-dioxide pollution?
- a) Bryophytes
  - b) Algal blooms
  - c) Pseudomonas
  - d) Lichens
23. The word 'ecology' (Ökologie) was coined in 1866 by:
- a) Charles Darwin
  - b) Robert Whittaker
  - c) Arthur Tansley
  - d) Ernst Haeckel
24. In an ecotone, the species which become abundant are called:
- a) Edge species
  - b) Keystone species
  - c) Endemic species
  - d) Foster species

25. ....launched efforts to arrest the depletion of the fragile ozone layer.
- a) Montreal Protocol
  - b) Geneva Protocol
  - c) Kyoto Protocol
  - d) Nagoya Protocol
26. 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
27. Smog is the mixture of .....
- a) Smoke + Fog
  - b) Dust + Smoke
  - c) Smoke + water
  - d) Dust+Water
28. 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
29. The lowest region of atmosphere near to the earth surface is known as
- a) Stratosphere
  - b) Troposphere
  - c) Thermosphere
  - d) Exosphere
30. Depletion of Ozone layer causes
- a) Skin cancer
  - b) Blood cancer
  - c) Viral Infections
  - d) Lung diseases
31. Which of the following locations is a super-volcano?
- a) Yellowstone National Park
  - b) Mt Rainier
  - c) Iceland
  - d) Mt Kilimanjaro

32. A place where an earthquake originates is called the .....
- a) Focus
  - b) Tsunami
  - c) Fault Line
  - d) Epicenter
33. As the magnitude of natural disasters increases their frequency of occurrence .....
- a) Increases
  - b) decreases
  - c) remains the same
  - d) varies over time.
34. 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
35. National Institute of Disaster management is located at?
- a) Poona
  - b) Midnapur
  - c) New Delhi
  - d) Calcutta
36. 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
37. The term Tsunami is coined from?
- a) Chinese
  - b) Indian term
  - c) German term
  - d) Japanase term

38. 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
39. 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
40. Which of the following has maximum speed?
- a) Air
  - b) Water Current
  - c) Sound
  - d) Light
41. One of the best solution to get rid of nonbiodegradable waste is
- a) Burning
  - b) Buring
  - c) Dumping
  - d) Recycling
42. The term ‘Green Revolution’ is coined by
- a) M. S. Swaminathan
  - b) William Gaud
  - c) Charles Elton
  - d) Eugene Odum
43. Alum is used as --
- a) A disinfectant of water
  - b) coagulant of water
  - c) A fertilizer
  - d) A smelling agent of water

44. All components and individuals in an ecosystem are .....
- a) Indispensible
  - b) Interdependent
  - c) Dispensible
  - d) Individualistic
45. The concept of carbon credit is originated from
- a) Earth summit
  - b) Montreal protocol
  - c) Kyoto protocol
  - d) COP
46. ....planet is surrounded by a ring.
- a) Venus
  - b) Moon
  - c) Saturn
  - d) Mars
47. Wavelength range of visible light is .....
- a) 400-500 nm
  - b) 300-400 nm
  - c) 390-780 nm.
  - d) 390-1000 nm
48. The metal constituent of chlorophyll is .....
- a) Calcium
  - b) Magnesium
  - c) Selenium
  - d) Manganese
49. ....is on the borderline of living and non-living.
- a) Lichen
  - b) Bacteria
  - c) Algae
  - d) Virus
50. What is source of carbon monoxide?
- a) Incomplete burning of wood
  - b) Fuel combustion
  - c) Exhaust fumes of motor vehicles.
  - d) All of these



51. The Red List of IUCN provides the list of .....
- a) Endemic species
  - b) Isolated species
  - c) Threatened species
  - d) Exotic species
52. .... is not an air pollutant.
- a) Phosphate
  - b) Pollen grains
  - c) Hydrocarbons
  - d) Sulphur dioxide
53. .... animals are found in wild habitat in India.
- b) Gorilla
  - a) Snow leopard
  - c) Chimpanzee
  - d) Cheetah
54. 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
55. The Western Ghats Ecology Expert Panel (WGEEP) is headed by .....
- a) R. K. Pachauri
  - b) Madhav Gadgil
  - c) Vandana Shiva
  - d) K. Kasturinandan
56. The Environment (Protection) Act of India was enacted in .....
- a) 1986
  - b) 1974
  - c) 1977
  - d) 2002
57. Increase in the concentration of pollutants in higher trophic levels is known as ....
- a) Biodegradation
  - b) Eutrophication
  - c) Bio magnification
  - d) Recycling

58. Phytoplanktons are members of ..... ecosystem.
- a) Forest
  - b) Aquatic
  - c) Desert
  - d) Grassland
59. The chlorine, which serves as a disinfectant is .....
- a) Free chlorine
  - b) Free residual chlorine
  - c) Chlorine demand
  - d) Residual demand
60. 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
61. Self-purification is a phenomenon associated with .....
- a) Flowing streams
  - b) Ground water
  - c) Sewage flow in sewers
  - d) Dams
62. 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
63. Highest percentage of gas in air is .....
- a) Oxygen
  - b) Carbon dioxide
  - c) Carbon monoxide
  - d) Nitrogen
64. .... is not having a single river in it.
- a) Maharashtra
  - b) Lakshdwip
  - c) Assam
  - d) Tripura

65. The loss of water from plant leaves is called as .....
- a) Respiration
  - b) Transpiration
  - c) Excretion
  - d) Evaporation
66. Sudden increase in the population of a species is .....
- a) Population explosion
  - b) Population growth
  - c) Over population
  - d) Over growth
67. Cyclones are generally formed due to .....
- a) Low atmospheric pressure
  - b) High atmospheric pressure
  - c) Heavy rains
  - d) Low rains
68. Which one of the following birds can rotate its neck backwards to a large extent?
- a) Mynah
  - b) Sparrow
  - c) Crow
  - d) Owl
69. Full form of CNG is .....
- a) Common National Gas
  - b) Common Natural Gas
  - c) Compressed Natural Gas
  - d) Certified Natural Gas
70. The Periyar National Park (PNR) is located in ..... state.
- a) Orissa
  - b) Rajasthan
  - c) Karnataka
  - d) Kerala

71. Which of the following organization work for biodiversity conservation?
- a) WWF    b) IUCN  
c) Green Peace                                      d) IPCC
72. 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
73. In vermi-composting ..... are used to produce compost.
- a) Algae    b) Fungi  
c) Bacteria    d) Worms
74. 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>
75. .... National Park is specially developed for birds.
- a) Sanjay Gandhi                                      b) Keoladeo  
c) Kanha    d) Corbett
76. Salinization is accumulation of salt in .....
- a) Water    b) Soil  
c) Body    d) animal
77. Forest protection campaign started in Karnataka is known as .....
- a) Chipko Movement  
b) Appico Movement  
c) Joint Forest Management  
d) Afforestation Movement

78. What is GIS?
- a) Geological Information system
  - b) Geographical information system
  - c) Geographical information source
  - d) Geological index system
79. The place where the worst nuclear disaster took place is .....
- a) Washington
  - b) Chernobyl
  - c) Bhopal
  - d) Japan
80. The main source of energy in the environment is .....
- a) Solar energy
  - b) Chemical energy
  - c) Nuclear energy
  - d) Bio-electrical energy
81. 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
82. Human population growth curve is a ..... Curve.
- a) Parabola shaped
  - b) S shaped
  - c) Zig zag
  - d) J shaped
83. The unit of sound measurement is .....
- a) Joules
  - b) Calories
  - c) Decibel
  - d) Hertz
84. 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>

85. .... problem is not created by noise pollution.
- a) Hypertension
  - b) Diarrhea
  - c) Deafness
  - d) Irritation
86. .... are the three R's in environmental protection.
- a) Read, Register, Recall
  - b) Random, Register, Recollect
  - c) Reduce, Rebuild, Restrict
  - d) Reduce, Reuse, Recycle
87. 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
88. Ozone layer is present in .....
- a) Troposphere
  - b) Mesosphere
  - c) Stratosphere
  - d) Lithosphere
89. The days and nights are formed because of .....
- a) Earth's rotation
  - b) Earth's revolution
  - c) 'Sun's rotation
  - d) Sun's revolution
90. 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

91. Photosynthesis is found in .....
- a) Consumers
  - b) Producers
  - c) Decomposers
  - d) Parasites
92. .... is the phenomenon where Earth retains heat.
- a) Air pollution
  - b) Greenhouse effect
  - c) Global effect
  - d) Land pollution
93. World Earth Day is celebrated on .....
- a) 5<sup>th</sup> June
  - b) 22<sup>nd</sup> March
  - c) 22<sup>nd</sup> April
  - d) 16<sup>th</sup> October
94. Smog” is a mixture of .....
- a) Smoke and Fog
  - b) Snow and Fog
  - c) Snow and dust
  - d) SO<sub>2</sub> and Fog
95. One of the following is not a nutrition deficiency disease.
- a) Kwashiorkor
  - b) Marasmus
  - c) Goiter
  - d) Plague
96. .... energy is converted into electrical energy by a solar cell.
- a) Chemical
  - b) Solar
  - c) Wind
  - d) Magnetic
97. Carrier of Dengue disease is ..... mosquito.
- a) Culex
  - b) Aedes
  - c) Anophelis
  - d) House fly
98. 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

99. The science that deals with the relationship of various organisms with their environment is known as .....

- a) Ecology
- b) Anthropology
- c) Geology
- d) Economics

100. The pyramid of energy is always

- a) Upright
- b) Inverted
- c) Spindle shaped
- d) Round

