

Seat No.
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Total No. of Pages : 24

**P.G. Re Entrance Examination, 2024**  
**M.Sc. (Environmental Science)**  
**Subject Code : 58727**

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**Day and Date : Friday, 28-Jun-2024****Total Marks : 100****Time : 10:30 am to 12:00 pm**

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**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. Which one of the following is a nonrenewable resource?
  - a) Coal
  - b) Forests
  - c) Water
  - d) Wildlife
2. The most severe impact of deforestation is \_\_\_\_\_
  - a) Loss of cultural diversity
  - b) Loss of biodiversity
  - c) Climate Change
  - d) Change in rainfall

3. Deforestation affects \_\_\_\_\_
- a) Rainfall
  - b) water pollution
  - c) Drought
  - d) Population Growth
4. Forest protection campaign started in Karnataka is known as \_\_\_\_\_
- a) Chipko Movement
  - b) Appico Movement
  - c) Joint Forest Management
  - d) Afforestation Movement
5. Forest is \_\_\_\_\_
- a) Renewable resource
  - b) Nonrenewable resource
  - c) Inexhaustible
  - d) None of the above
6. The percentage of earth covered by water is \_\_\_\_\_
- a) 80%
  - b) 76%
  - c) 71%
  - d) 67%

7. The largest freshwater lake in the world is \_\_\_\_\_
- a) Lake Superior
  - b) Lake Victoria
  - c) Lake Tangency
  - d) Caspian Sea
8. Discharge of sewage in river causes \_\_\_\_\_
- a) Water pollution
  - b) Air pollution
  - c) Soil pollution
  - d) None of these
9. Cauvery water dispute is between \_\_\_\_\_
- a) Kerala and Tamilnadu
  - b) Kerala and Tamilnadu
  - c) Tamilnadu and Karnataka
  - d) Karnataka and Andhra Pradesh
10. The thickness of the crust under the ocean is \_\_\_\_\_
- a) 8 to 15 Km
  - b) 20 to 360 Km
  - c) 30 to 45 Km
  - d) 45 to 75 Km
11. The one constituent which is uncommon in most of the rocks is \_\_\_\_\_
- a) Feldspar
  - b) Quartz
  - c) Mica
  - d) Sodium Chloride

12. Metals have the following properties except one of them \_\_\_\_\_
- a) Malleable and ductile
  - b) Strong and lustrous
  - c) Form positive ions by losing electrons
  - d) Crystalline
13. In India one of the following fuel resources is most abundant \_\_\_\_\_
- a) Oil
  - b) Natural Gas
  - c) Lignite Coal
  - d) Uranium
14. Which of the following is a substrate for biogas production?
- a) Municipal and residential waste
  - b) E-waste
  - c) Metallic waste
  - d) Gaseous effluents
15. Environmental impact is greatest in case of mining and processing of \_\_\_\_\_
- a) Iron ore
  - b) Coal
  - c) Oil
  - d) Manganese
16. One of the following is not a nutrition deficiency disease. That is \_\_\_\_\_
- a) Kwashiorkor
  - b) Marasmus
  - c) Goiter
  - d) Plague

17. Rural energy source in India is \_\_\_\_\_
- a) Electricity
  - b) Coal
  - c) LPG
  - d) Wood and animal dung
18. Largest production of hydroelectricity is carried out in \_\_\_\_\_
- a) Brazil
  - b) Canada
  - c) New Zealand
  - d) China
19. Percentage of thermal power generation in India is \_\_\_\_\_
- a) 62%
  - b) 65%
  - c) 72%
  - d) 77%
20. Power generation from the following mode is least polluting \_\_\_\_\_
- a) Coal
  - b) Oil
  - c) Hydro energy
  - d) none of these
21. Which among the following is the best source for methane production?
- a) Metallic scrap
  - b) E-waste
  - c) Plastic waste
  - d) Water hyacinth

22. Extensive planting of trees to increase the green cover is called \_\_\_\_\_
- a) Afforestation
  - b) Agro forestation
  - c) Deforestation
  - d) Social forestry
23. In an aquatic ecosystem the third tropic level comprises by \_\_\_\_\_
- a) Big fishes
  - b) Phytoplankton
  - c) Zooplankton
  - d) Crustaceans
24. The topmost function of Ecosystem is \_\_\_\_\_
- a) Water regulation
  - b) Climate regulation
  - c) Primary production of food
  - d) Gas regulation
25. A 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

26. Ex situ conservation locations are \_\_\_\_\_
- a) National Parks.
  - b) Botanical Gardens
  - c) Wild life sanctuaries
  - d) Biosphere reserves
27. The taxonomic group of which has the largest number is \_\_\_\_\_
- a) Angiosperms
  - b) Insects
  - c) Fungi
  - d) Mollusks
28. Lateritic soils are found in \_\_\_\_\_
- a) Maharashtra and Karnataka
  - b) UP and Bihar
  - c) Tamil Nadu
  - d) Kerala
29. Teak, Oak and Maple leaves occur in \_\_\_\_\_
- a) Tropical rain forest
  - b) Temperate deciduous forest
  - c) Moist deciduous forest
  - d) Savannas

30. Carrying capacity is \_\_\_\_\_
- a) Prevention of population explosion
  - b) The maximum no, that a habitat can sustain
  - c) The limiting factors existing in an ecosystem
  - d) The upper limit of J curve
31. Where is the World's Largest Rain forest present?
- a) Amazone basin
  - b) Congo Basin
  - c) Indonesia
  - d) China
32. What occurs in the hydrolysis step of anaerobic digestion?
- a) Large polymers combine with water molecules
  - b) Large polymers break down to form water molecules
  - c) Small polymers combine to form large polymers with the help of water molecules
  - d) Large polymers break down into amino acids, fatty acids and simple sugars
33. Which of the following material is not in direct use \_\_\_\_\_
- a) Glacial ice
  - b) riverine water
  - c) lakes
  - d) estuarine water



34. In human body which tissue is the best indicator of lead accumulation?
- a) Fatty tissues
  - b) bones
  - c) brain
  - d) blood
35. Which of the following is a greenhouse gas?
- a) CO
  - b) SO<sub>2</sub>
  - c) NO<sub>x</sub>
  - d) CO<sub>2</sub>
36. Behavior of energy in the ecosystem is governed by \_\_\_\_\_
- a) Laws of thermodynamics
  - b) Entropy
  - c) Enthalpy
  - d) None of the above
37. Ramsar convention is related to \_\_\_\_\_
- a) CDM
  - b) Ozone
  - c) Green House
  - d) Wetlands
38. Survodaya Movement which is close to the rural sustainable development was Started by
- a) Mahatma Gandhi
  - b) Maharshi Karve
  - c) Acharya Vinoba Bhave
  - d) Senapati Bapat



44. Digitizer in GIS is used as a \_\_\_\_\_
- a) Output device
  - b) Software
  - c) Technique
  - d) Input device
45. World Ozone Day is celebrated on \_\_\_\_\_
- a) March 31
  - b) June 5
  - c) September, 16
  - d) October 1
46. Climatic Climax is related with \_\_\_\_\_
- a) Succession
  - b) Regression
  - c) Degradation
  - d) None of the above
47. Following is biodiversity Hot Spot \_\_\_\_\_
- a) Western Ghats
  - b) Himalayas
  - c) Eastern Ghats
  - d) All of the above
48. Smoke is product of
- a) Incomplete combustion
  - b) Complete combustion
  - c) Incineration
  - d) None of the above

49. Organic matter in waste water is determined by \_\_\_\_\_
- a) Sulphate                                      b) BOD
- c) Phosphorus                                  d) Chlorides
50. Following is mixture of algae and fungi \_\_\_\_\_
- a) Plasmid
- b) Actinomycetes
- c) Plasma
- d) Lichens
51. Sound wave travel in the air at the speed of \_\_\_\_\_
- a) 400m/s                                      b) 300m/s
- c) 343m/s                                      d) 440m/s
52. In West Bengal which ground water pollutant is posing a serious threat to public Health \_\_\_\_\_
- a) Nitrate                                      b) Fluoride
- c) Arsenic                                      d) Selenium
53. LPG mostly contains \_\_\_\_\_
- a) Methane
- b) Butane + Propane
- c) Methane + Butane
- d) Butane Acetylene.

54. The enjoyment of life its environment and fulfillment is guaranteed by which Article of Indian constitution \_\_\_\_\_
- a) 48A                                      b) 21  
c) 42                                        d) 42A
55. Cyclone separator makes use of \_\_\_\_\_ to control air pollution
- a) Centrifugal Force  
b) Gravitational Force  
c) Inertial Impaction  
d) Adhesive force
56. Following is a stagnant ecosystem \_\_\_\_\_
- a) Lentic                                      b) Lopistic  
c) Lotic                                        d) None of the above
57. Conference on Human Environment in Sweden was held in \_\_\_\_\_
- a) Rio d Janerio  
b) Stockhlom  
c) Vienna  
d) Montrea
58. Which of the following wave is not produced by Earthquake?
- a) Love Wave                                      b) S Wave  
c) Raleigh Wave                                      d) Newton Wave

59. Which industrial workers suffer from the respiratory disease i.e. Byssinosis?
- a) Cardboard
  - b) Paper
  - c) Plastics
  - d) Textile
60. Avalanches are \_\_\_\_\_
- a) Debris of landslides near hilly regions
  - b) Destructive storms of southern hemisphere
  - c) Vallies created by erosion of mountains
  - d) Mass of snow flowing due to gravity on slopes of mountains
61. Phytoplankton are the examples of \_\_\_\_\_
- a) Producers
  - b) consumers
  - c) Decomposers
  - d) none of the above.
62. Bhopal gas tragedy was occurred in the year \_\_\_\_\_
- a) 1980
  - b) 1982
  - c) 1984
  - d) 1986
63. Ozone layer is present in \_\_\_\_\_
- a) Stratosphere
  - b) Mesosphere
  - c) Troposphere
  - d) Thermosphere

64. Which is the largest reservoir of the fresh water \_\_\_\_\_
- a) Ocean
  - b) Rivers
  - c) Polar ice cap
  - d) Esturies
65. Biomedical waste means \_\_\_\_\_
- a) Hospital waste
  - b) Hotel waste
  - c) Municipal waste
  - d) none of the above
66. The taxonomic group of which has the largest number is \_\_\_\_\_
- a) Angiosperms
  - b) Insects
  - c) Fungi
  - d) Mollusks
67. Reverse osmosis is a type of \_\_\_\_\_ system
- a) Dead end filtration system
  - b) Ion exchange method
  - c) Cross flow filtration system
  - d) Microfiltration

68. Ex situ conservation locations are \_\_\_\_\_
- a) National Parks
  - b) Botanical Gardens
  - c) Wild life sanctuaries
  - d) Biosphere reserves
69. The nuclear fuel includes \_\_\_\_\_
- a) Uranium
  - b) Thorium
  - c) Both a and b
  - d) None of the above
70. Which of the following organic particulate matter have carcinogenic effect?
- a) Polycyclic Aromatic Compound
  - b) Dichloromethane
  - c) Dichloromethane
  - d) Calcium Oxide
71. Which of the following gas is not responsible for global warming?
- a) CO<sub>2</sub>
  - b) Methane
  - c) SO<sub>2</sub>
  - d) CFC



72. What are the two main products of anaerobic digestion?
- a) Carbon monoxide and hydrogen
  - b) Methane and carbon dioxide
  - c) Methane and carbon monoxide
  - d) Hydrogen and carbon dioxide
73. Which of the following is the secondary air pollutant?
- a) Carbon monoxide
  - b) Sulphur Dioxide
  - c) Ozone
  - d) Carbon Dioxide
74. E waste means \_\_\_\_\_
- a) Electronic waste
  - b) paper waste
  - c) Glass waste
  - d) Hazardous waste
75. Which among following is bio degradable?
- a) Vegetable waste
  - b) glass
  - c) Metal
  - d) Thermocol

76. IRS stands for \_\_\_\_\_
- a) Indian Remote Sensing
  - b) Innovative Remote Sensing
  - c) Indian Remote Services
  - d) International research on Science
77. An aquifer is associated with \_\_\_\_\_
- a) Water
  - b) Groundwater
  - c) Rain water
  - d) Soil erosion.
78. 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
79. Smog is the mixture of \_\_\_\_\_
- a) Smoke + Fog
  - b) Dust - Smoke
  - c) Smoke + water
  - d) Dust Water
80. Depletion of Ozone layer causes \_\_\_\_\_
- a) Skin cancer
  - b) Blood cancer
  - c) Viral Infections
  - d) Lung diseases

81. 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
82. Catalytic converters used in \_\_\_\_\_
  - a) Vehicles
  - b) ETP
  - c) Stack
  - d) Reverse osmosis
83. The bacterium which provides nitrogen to the leguminous plants is \_\_\_\_\_
  - a) Rhizobium
  - b) Fungi
  - c) Yeast
  - d) Lichens
84. What is the process of converting waste materials into reusable materials called?
  - a) Incineration
  - b) Composting
  - c) Recycling
  - d) Landfilling
85. Which of the following is a major source of indoor air pollution?
  - a) Vehicle emissions
  - b) Industrial smokestacks
  - c) Cigar smoke
  - d) volcanic eruptions

86. The process of soil erosion can be reduced by \_\_\_\_\_
- a) Overgrazing
  - b) Deforestation
  - c) Planting trees
  - d) Increasing irrigation
87. Environmental Science is an \_\_\_\_\_ science.
- a) Interdisciplinary
  - b) Multidisciplinary
  - c) Intra-disciplinary
  - d) All of these
88. Food chains are part of \_\_\_\_\_
- a) Energy pyramids
  - b) energy eyeles
  - c) food webs
  - d) soil cycle
89. Today's human population growth pattern is \_\_\_\_\_
- a) Linear
  - b) exponential
  - c) Multiple
  - d) unpredictable

90. CFC gas is used in \_\_\_\_\_
- a) Refrigerator
  - b) incinerator
  - c) Oven
  - d) automobiles
91. \_\_\_\_\_ is produced by landfills.
- a) Methane
  - b) ammonia
  - c) Propane
  - d) sulphur dioxide
92. Lightning effect one of the following nature's cycle
- a) Carbon cycle
  - b) Nitrogen cycle
  - c) Sulphur cycle
  - d) Phosphorus
93. Coal based thermal power plants emit \_\_\_\_\_
- a) Sulphur dioxide
  - b) nitrogen dioxide
  - c) Particulate matter
  - d) all

94. UNEP Stands for \_\_\_\_\_
- a) United National Economic Programme
  - b) United Nations Environment Programme
  - c) United National Energy Programme
  - d) None of above
95. Which element found the mostly in earth's crust?
- a) Oxygen
  - b) Silicon
  - c) Aluminum
  - d) Gold
96. Nucleic acids have important genetic material
- a) Gene
  - b) Chromosome
  - c) Both a & b
  - d) None of the above
97. The main leader of Chipko movement 1987 was
- a) Sunder Lal Bahuguna
  - b) Mrs. Indira Gandhi
  - c) S. C. Choudhary
  - d) Medha parker
98. Largest planet in the solar system is \_\_\_\_\_
- a) Mars
  - b) Earth
  - c) Jupiter
  - d) Saturn

99. The continuous increase in concentration of a toxicant at successive trophic levels in food chain is \_\_\_\_\_
- a) Biodegradation
  - b) Bioaccumulation
  - c) Biomagnification
  - d) Biotransformation
100. Why Chlorine is used in water treatment?
- a) For disinfection
  - b) For taste
  - c) For odour removal
  - d) None of these

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**ROUGH WORK**