

Seat No.	
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P.G. Entrance Examination, May - 2023**M.Sc. ENVIRONMENTAL SCIENCE****Sub. Code : 58727****Day and Date : Wednesday, 10 - 05 - 2023****Total Marks : 100****Time : 10.30 a.m. to 12.00 noon**

- 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. 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

2. The famous Indian creative writer and environmental activist associated with the dam displaced of people is _____.
a) Meera Nayar b) Medha Patkar
c) Shabana Azmi d) Arundhati Roy

3. Self purification is a phenomenon associated with _____.
a) flowing streams b) ground water
c) sewage flow in sewers d) none of the above

4. Carbon Monoxide gas is _____.
a) Colourless b) Odourless
c) Tasteless d) All the above

P.T.O.

19. Highest level of species richness is observed in _____.
- a) Tropical rain forest b) Temperate grass lands
c) Coniferous forests d) Alpine pasture
20. The lentic system contains _____.
- a) Stagnant water bodies b) Running water bodies
c) Rivers d) Streams
21. Herbivores are _____.
- a) Primary producers b) Secondary consumers
c) Primary consumers d) Tertiary consumers
22. Which of the following is nonbiodegradable material?
- a) paper b) wood
c) vegetable residue d) plastic
23. Acid rain is caused by emission of _____.
- a) SO_2 and NO_2 b) H_2S
c) CH_4 d) none of the above
24. Sound wave travels in air at a speed of _____.
- a) 300 m/s b) 340 m/s
c) 400 m/s d) 440 m/s
25. Fluorosis is caused by :
- a) Nitrite b) Nitrate
c) Lead d) Fluoride

26. Concept of ecosystem deals with
- a) Circulation of material
 - b) Exchange of material
 - c) Consumption of material
 - d) None of these
27. The troposphere contains approximately _____ by mass of the entire atmosphere.
- a) 80-85%
 - b) 40-50%
 - c) 50-70%
 - d) 20-30%
28. Which metal is associated with Minamata Disease?
- a) Hg
 - b) Cd
 - c) Cr
 - d) Pb
29. Pesticides have been found to affect _____
- a) Central nervous system
 - b) Respiratory system
 - c) Digestive system
 - d) All
30. Which of the following fuels contains only one carbon atom?
- a) CNG
 - b) LPG
 - c) Petrol
 - d) Diesel
31. Carbon Dioxide percentage in clean air is _____.
- a) 0.30
 - b) 0.03
 - c) 0.003
 - d) 0.0003
32. Deficiency of fluoride in water causes _____.
- a) Methanoglobinemia
 - b) Fluorosis
 - c) Dental caries in children
 - d) Poliomyelitis

33. An aquifer is associated with _____.
- a) Water
 - b) Groundwater
 - c) Rain water
 - d) Soil erosion
34. Regolith is the geological name of _____.
- a) Topsoil
 - b) Lome
 - c) Sand
 - d) Silt
35. The earth's magnetic axis is inclined to its axis of rotation at an angle of _____.
- a) $33 \frac{1}{3}^\circ$
 - b) $11 \frac{1}{2}^\circ$
 - c) $22 \frac{1}{2}^\circ$
 - d) 8°
36. The motor car produces the minimum amount of pollution during _____.
- a) Idling
 - b) Moving
 - c) Accelerating
 - d) Decelerating
37. The bacteria which survive in the presence of oxygen are called _____.
- a) facultative
 - b) aerobic
 - c) anaerobic
 - d) E-coli
38. Coal based thermal power plants emit _____.
- a) sulphur dioxide
 - b) nitrogen dioxide
 - c) particulate matter
 - d) all
39. The Nitrogen percentage in air is _____.
- a) 77
 - b) 78
 - c) 70
 - d) 80

82. The function of automobile catalytic converter is to control emissions of _____.
- a) Carbon dioxide and hydrogen
 - b) Carbon monoxide and hydrogen
 - c) Carbon monoxide and carbon dioxide
 - d) Carbon monoxide and nitrogen dioxide
83. Hyperplasia means _____.
- a) Excessive motility of a muscle
 - b) Voracious eating
 - c) Abnormal increase in number of cells
 - d) An increase in size of a cell
84. The global warming efficiency of a CFC molecule in relation to a CO₂ molecule is higher by a factor of _____.
- a) 125
 - b) 25
 - c) 20,000
 - d) 1500
85. The chemical that is used to ripen mangoes is _____.
- a) Calcium sulphide
 - b) Calcium carbide
 - c) Calcium carbonate
 - d) Calcium chloride
86. Organisms that generate energy using light are _____.
- a) oligotrophs
 - b) chemorganotrophs
 - c) chemolithotrophs
 - d) photoautotrophs
87. ISO - 14000 standards deal with _____.
- a) Pollution management
 - b) Risk management
 - c) Environmental management
 - d) None of the above

Rough Work