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Question Paper Version : A

Fifth Semester B.E./B.Tech. Degree Examination, June/July 2024
Environmental Studies

Time: 1 hr.]

[Max. Marks: 50

INSTRUCTIONS TO THE CANDIDATES

1. Answer all the **fifty** questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

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1. In an ecosystem, the flow of energy is _____.
a) Biodirectional b) Cyclic c) Unidirectional d) Multidirectional
 2. Which of the following is a biotic component of an ecosystem?
a) Fungi b) Solar light c) Temperature d) Humidity
 3. Which pyramid is always upright?
a) Energy b) Biomass c) Numbers d) Food chain
 4. The largest reservoir of nitrogen in our planet is,
a) Oceans b) Atmosphere c) Biosphere d) Fossil fuels
 5. Abiotic components include,
a) Soil b) Temperature c) Water d) All of these
 6. Primary consumer is,
a) Herbivores b) Carnivores c) Macro consumers d) Omnivores
 7. The word "Environment" is derived from _____.
a) Greek b) French c) Spanish d) English
 8. Mineral is,
a) Organic matter b) Naturally occurring inorganic substance
c) Synthesis compound d) None of these

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9. The term ecosystem was first proposed by,
a) Jacob Van Verkul b) A.G. Transley c) Costraza d) Marrie Gibbs
10. Gold occurs in,
a) Sedimentary Deposits b) Placer deposits
c) Hydrothermal deposits d) None of these
11. Fluorosis is caused due to,
a) No fluoride intake b) Low fluoride intake
c) Excessive fluoride intake d) None of these
12. Decrease of oxygen level in water mainly causes,
a) Fluorosis b) Death of aquatic life
c) Water pollution d) Both (b) and (c)
13. Mineral resources are,
a) Renewable b) Non-Renewable c) Equally distributed d) None of these
14. Deforestation can,
a) Increase the rainfall b) Increase soil fertility
c) Introduce silt in rivers d) None of these
15. Plants use _____ gas for photosynthesis.
a) Oxygen b) Methane c) Nitrogen d) Carbon dioxide
16. Forests prevent soil erosion by binding soil particles in their,
a) Stems b) Roots c) Leaves d) Buds
17. Nitrogen fixing bacteria exists in _____ of plants?
a) Leaf b) Roots c) Stem d) Flower
18. Which of the following is the source of ground water?
a) Oceans b) Springs c) Rivers d) All of these
19. The effluents from urban areas contain,
a) Oil and greases b) Detergents
c) Nutrients d) All of these
20. Maximum dissolved oxygen is required by,
a) Fish b) Bacteria c) Vegetables d) All of these
21. Which of the following is not a component of soil?
a) Mineral matter b) Organic matter c) Ozone d) Soil air
22. Definition of Noise is,
a) Loud sound b) Unwanted sound c) Constant sound d) Sound of high frequency
23. The Noise is measured in,
a) Decibels b) Joules c) PPM d) NTU

24. Noise pollution can be minimized by,
 a) Urbanization b) Maintaining silence
 c) Reducing noise at source d) None of these
25. Bursting crackers mainly causes,
 a) Noise pollution b) Plastic pollution c) Marine pollution d) None of these
26. Water pollution can be minimized by,
 a) Releasing sewage to ocean b) Releasing effluent to waste land
 c) Treating waste water d) None of these
27. Chlorine can be used to,
 a) To kill pathogenic microorganisms b) To increase the pH
 c) To clear the turbidity d) All of these
28. Carbon content is higher in,
 a) Soil b) Atmosphere c) Water d) Living matter
29. The depletion of trees is causing accumulation of _____.
 a) NO_3 b) SO_2 c) CO_2 d) O_2
30. The adverse effect of modern agriculture is,
 a) Water pollution b) Soil degradation c) Water logging d) All of these
31. E.I.A is related to,
 a) Resource conservation b) Efficient Equipment process
 c) Waste minimization d) All of these
32. "Earth Day" is held every year on,
 a) June 5th b) November 23rd c) April 22nd d) January 26th
33. Which of the following is the most environmental friendly agriculture practice?
 a) Using chemical fertilizers b) Using insecticides
 c) Organic farming d) None of these
34. The diesel vehicles pollute the environmental largely through,
 a) NO_x b) CO c) Unburnt hydrocarbons d) All of these
35. Which among the following is clean fuel?
 a) Petrol b) Diesel c) Electricity d) CNG
36. Which among the following is not a greenhouse gas,?
 a) N_2O b) CFC's c) HFA's d) None of these
37. The protocol that reduces greenhouse gas emission's are,
 a) Kyoto protocol b) Cartagena protocol c) Montreal protocol d) Vienna protocol
38. Global Warming could affect,
 a) Climate b) Increase in Sea level
 c) Melting of glaciers d) All of these

39. Which of the following is a source of SO_2 in atmosphere?
a) Volcanoes
b) Thermal power plants
c) H_2SO_4 manufacturing
d) All of these
40. Atmospheric oxidation of SO_2 to SO_3 is influenced by,
a) Sunlight
b) Humidity
c) Presence of hydrocarbons
d) All of these
41. Acid Rain effects _____.
a) Materials
b) Plants
c) Soil
d) All of these
42. Ozone layer is present in,
a) Troposphere
b) Stratosphere
c) Mesosphere
d) Thermosphere
43. Which of the following is the unit for measuring the thickness of ozone layer?
a) Decibels
b) Dobson unit
c) Centimeter
d) None of these
44. CFC's have been used as,
a) Solvents
b) Refrigerants
c) Blowing agents for polymer foams
d) All of these
45. Ozone hole was first discovered over,
a) Arctic
b) Antarctica
c) Tropical region
d) Africa
46. The term acid rain was coined in the year,
a) 1952
b) 1852
c) 1652
d) 1752
47. Which of the following is not a source of CO_2 in the atmosphere?
a) Burning of fossil fuels
b) Photosynthesis
c) Volcanic Eruptions
d) Animal and plant respiration and decay
48. Increase in Asthma attacks has been linked to high levels of,
a) Oxygen
b) Airborne dust particles
c) Nitrogen
d) All of these
49. Food chain is divided into _____ basic categories.
a) Four
b) Three
c) Five
d) Seven
50. About $\frac{3}{4}$ of the country's coal deposits are found in,
a) Karnataka
b) Tamil Nadu
c) Kashmir
d) Bihar and Orissa.
