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BANGALORE - 560 037

First/Second Semester B.E Degree Examination, June/July 2018

**Environmental Studies**

(COMMON TO ALL BRANCHES)

Time: 2 hrs.]

[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.

1. The word ecology is proposed by  
a) Helena Curtis      b) Charles Alton      c) Ernst Haeckel      d) Edward Swice
2. Physical environment includes  
a) Hydrosphere      b) Atmosphere      c) Lithosphere      d) All of these
3. Concentration of pollutants in successive trophic levels is known as  
a) Bioremediation      b) Bioaccumulation      c) Both a & b      d) None of these
4. Which of it is not an example for an ecosystem  
a) Forest      b) Desert      c) Water      d) Grassland
5. The organisms who directly feed on producers are called  
a) Herbivores      b) Carnivores      c) Decomposers      d) Saprophytes
6. Earth is made up of 3 distinct layers  
a) Tropo, strato, meso      b) Core, mantle, crust  
c) Atono, hydro, litho      d) All of these
7. Which pyramid is always upright  
a) energy      b) biomass      c) numbers      d) food chain
8. Abiotic component includes  
a) soil      b) temperature      c) water      d) All of these

9. The word 'Environment' is derived from  
a) Greek                      b) Latin                      c) English                      d) French
10. Which of the following is absorbed by green plants from the atmosphere?  
a) CO<sub>2</sub>                      b) Water                      c) Nutrients                      d) All of these
11. Effect of modern agriculture on soil is due to  
a) erosion                      b) acidification                      c) salinization                      d) All of these
12. Minamata episode of Japan is due to the poisoning of  
a) Lead                      b) Nickel                      c) Mercury                      d) Cadmium
13. Most common type of mineral used in  
a) Iron                      b) Soil                      c) Coal                      d) Copper
14. EIA is not required for projects like  
a) Dams                      b) Highways                      c) Urbanization                      d) None
15. The important goal of EIA is  
a) Control pollution levels                      b) Resource conservation  
c) Stop developmental activities                      d) Provisions of basic needs of life
16. Most commonly used pesticides include  
a) DDT, organo-phosphates & insecticides                      b) Urea, organo-phosphates & insecticides  
c) Both a & b                      d) None of these
17. Blue baby syndrome is due to high concentration of  
a) Nitrates                      b) Nitrites                      c) Phosphates                      d) Sulphates
18. Earth day is held every year on  
a) June 5<sup>th</sup>                      b) Nov 23<sup>rd</sup>                      c) April 22<sup>nd</sup>                      d) Jan 26<sup>th</sup>
19. Fluorosis is caused due to  
a) No fluoride intake                      b) low fluoride intake  
c) excessive fluoride intake                      d) none of these
20. Respiration and photosynthesis are keywords related  
a) Nitrogen cycle                      b) Sulphur cycle                      c) carbon cycle                      d) hydrological cycle
21. Extensive plantings of trees to increase forest cover is called  
a) Afforestation                      b) Deforestation                      c) Both a and b                      d) None of these
22. Carbon content is higher in  
a) Soil                      b) Water                      c) Atmosphere                      d) Living matter
23. An important potential renewable resource on earth is  
a) Biodiversity                      b) Energy                      c) Soil                      d) All of these

24. Percentage of fresh water available on the earth is  
a) 2.8%                      b) 2.2%                      c) 0.6%                      d) 2.15%
25. Maximum total hardness allowed in the drinking water  
a) 600 mg/lit                      b) 1000 mg/lit                      c) 1500 mg/lit                      d) 750 mg/lit
26. The gold field in Karnataka  
a) Ramgiri                      b) Hutti                      c) Talchar                      d) Singrauli
27. Malaria is a  
a) Water borne disease                      b) Water induced disease  
c) both a and b                      d) None of these
28. Dry forests are found in  
a) Canada                      b) Australia                      c) India                      d) USA
29. Modern civilization began with  
a) Copper age                      b) Iron age                      c) Gold age                      d) Stone age
30. Fluoride in water can be removed by  
a) boiling                      b) reverse osmosis                      c) adding alum                      d) aeration.
31. During photosynthesis, trees produce  
a) oxygen                      b) CO<sub>2</sub>                      c) Nitrogen                      d) Carbon monoxide
32. Conversion of ammonium to NO<sub>3</sub> by chemical oxidation is formed as  
a) Mineralisation                      b) leaching                      c) Nitrification                      d) Denitrification
33. \_\_\_\_\_ are referred to as Earth's lungs.  
a) Forests                      b) Carbon cycle                      c) Water                      d) Mines
34. \_\_\_\_\_ Hotspots in India.  
a) 3                      b) 4                      c) 2                      d) 6
35. Hepatitis is caused by  
a) Protozoo                      b) Virus                      c) Bacteria                      d) Fungus
36. Charnobyl nuclear disaster took place in  
a) 1982                      b) 1986                      c) 1992                      d) 1996
37. A wind farm may consists \_\_\_\_\_ wind turbine units.  
a) 5 to 50                      b) 10 to 25                      c) 1 to 10                      d) 10 to 1000
38. Biomass contains compounds of  
a) Hydrogen                      b) Sulphur                      c) Carbon                      d) Sodium
39. Which of the following is not a fossil fuel  
a) Gas                      b) Oil                      c) Peat                      d) Uranium

40. Maximum dissolved oxygen is required by  
a) Fish                      b) Bacteria                      c) Vegetables                      d) All of these.
41. Noise pollution limits at residential area  
a) 45 dB                      b) 80 dB                      c) 55 dB                      d) 90 dB
42. Plants grown by the roadside have higher contents of  
a) Pb                      b) Fe                      c) Cr                      d) Ca
43. Definition of Noise is  
a) loud sound                      b) unwanted sound                      c) constant sound                      d) sound of high frequency
44. Which of the following is not a green house gas  
a) O<sub>2</sub>                      b) CO<sub>2</sub>                      c) CH<sub>4</sub>                      d) CFC's
45. Use of Compressed Natural Gas (CNG) come into effect from  
a) Dec 2002                      b) Dec 2004                      c) Jan 2000                      d) Sept 2003
46. Which of the following substantially reduces CO<sub>2</sub> emission from automobiles?  
a) Biofuels like ethanol and bio diesel                      b) Fossils fuels like coal and lignite  
c) Nuclear element like Uranium                      d) Voltaic cells
47. The pH of acid rain water is  
a) less than 5.2                      b) less than 5.6                      c) less than 6.2                      d) less than 5.8.
48. The environmental protection act, 1986 deals with  
a) Air                      b) Water                      c) Land                      d) All of these
49. Air act was implemented in the year  
a) 1986                      b) 1981                      c) 1974                      d) 2000
50. An important NGO involved in Global environmental protection is  
a) UNICEF                      b) WHO                      c) CPCB                      d) Green peace