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Question Paper Version : D

**First/Second Semester B.E Degree Examination, June/July 2014**  
**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. Example for tertiary consumers  
 a) Plants                      b) Cattle                      c) Snake                      d) Elephant
2. As per BIS, the minimum allowable limit of iron content in drinking water is  
 a) 1.0 mg//                      b) 0.2 me                      c) :41,3 mg//                      d) 0.5 mg//
3. In Hydro-power plants, power is generated by \_\_\_\_\_  
 a) Solar                      b) Thermal                      c) Water                      d) Coal
4. The PH value of acid rain was recorded in early days  
 a) 2.5                      b) 7.5                      c) 4.7                      d) 5.7
5. First international earth summit was held at  
 a) USA                      b) Russia                      c) Rio de-Janeiro                      d) Johannesburg
6. The air prevention and control of pollution Act was enacted in the year  
 a) 1987                      b) 1974                      c) 1981                      d) 1986
7. Smog is formed by the reaction of which air pollutants  
 a) Smoke and Mist.                      b) Smoke and Fog                      c) Smoke and Bio-Gas                      d) Smoke and Dust
8. Which of the following is not a solution for Global Warming?  
 a) Reducing use of Fossil fuels                      b) Planting more trees  
 c) Deforestation                      d) Reducing vehicular transportation
9. Methemoglobinemia is caused by the contamination of water due to \_\_\_\_\_  
 a) Mercury                      b) Nitrate                      c) Arsenic                      d) Nitrates

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10. Earth's Day is celebrated on every year  
a) June 22nd                      b) Sept.22nd                      c) April 22nd                      d) June 5th
11. Expansion of the term WWF is \_\_\_\_\_  
a) World wide life force                      b) World wide forest  
c) World wide life forest                      d) World wild life fund
12. Maximum allowable concentration of total hardness as per BIS in drinking water \_\_\_\_\_  
a) 600 mg/l                      b) 300 mg/l                      c) 1000 mg/l                      d) 250 mg/l
13. Water pollution prevention and control Act was enacted in the year \_\_\_\_  
a) 1986                      b) 1974                      c) 1981                      d) 1987
14. Stone cancer is, an effect of \_\_\_\_\_  
a) Climatic change ' b) Hard water                      c) Acid rain                      d) Excess of calcium
15. Most stable Eco-system is  
a) Mountain                      b) Ocean                      c) Population                      d) Fossil fuels
16. Ozone is present in which layer of the atmosphere  
a) Ozonosphere                      b) Stratosphere                      c) troposphere                      d) onosphere
17. What is the maximum allowable concentration of fluorides in drinking water?  
a) 1.0 mg/l                      b) 1.25 mg/l                      c) 1.50 mg/l                      d) 1.60 mg/l
18. Which of the following gas is not concern to green house effect?  
a) CO<sub>2</sub>                      b) CH<sub>4</sub>                      c) SO<sub>2</sub>                      d) H<sub>2</sub>O vapour
19. Which of the following is not a renewable source of energy?  
a) Solar                      b) Wind                      c) Nuclear                      d) Geo-Thermal
20. Optimum growth of bacteria in favorable PH value of  
a) 6.5 — 8.5                      b) 7.0                      c) 6.5 — 7.5                      d) 7.0 — 14.0
21. Bhopal gas tragedy was caused due to leakage of \_\_\_\_\_  
a) CH<sub>4</sub>                      b) MIC                      c) SO<sub>2</sub>                      d) Pesticides
22. Karnataka state pollution control board was established in the year  
a) 1984                      b) 1976                      c) 1974                      d) 1983
23. Among all oxides of nitrogen which one is responsible for the formation of acid rain  
a) Nitrous oxide                      b) Nitric oxide  
c) Nitrogen Trioxide                      d) Nitrogen pentoxide
24. The liquid waste generated from municipal solid waste disposal pits is called  
a) Solid waste water                      b) Sewage  
c) Leachate                      d) Compost waste water

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25. Minimum allowable limit of noise pollution for Human persistence is \_\_\_\_  
 a) 40dB                      b) 90dB                      c) 45dB                      d) 55dB
26. HIV can be transmitted to humans through which media?  
 a) Air                      b) Blood                      c) Virus                      d) Hereditary
27. Mineral resources are  
 a) Renewable                      b) Fossil fuels                      c) Non-renewable                      d) Sedimentary rocks
28. World Ozone day is being celebrating on every year  
 a) 15th Sept.                      b) 16th Oct.                      c) 16th Sept.                      d) 22nd April
29. Contribution of carbon dioxide to global warming from industries  
 a) 50%                      b) 24%                      c) 25%                      d) 75%
30. Which atmospheric layer is closest to the Earth's surface?  
 a) Mesosphere                      b) Troposphere                      c) Stratosphere                      d) Thermosphere
31. Anthropogenic activities means.  
 a) Natural made                      b) Bioloical                      c) Manmade                      d) Animal made
32. Which of the following energy source is less eco-friendly?  
 a) Wind                      b) Water                      c) Solar                      d) Thermal
33. Which of the following is a biotic component of an ecosystem?  
 a) Sunlight                      b) Fungi                      c) Temperature                      d) Water
34. Generation of wind energy is mainly based on which factor  
 a) Direction of wind                      b) Storms                      c) Velocity of wind                      d) Wind pressure
35. Example for abiotic component of eco-system  
 a) Plants                      b) Food                      c) Water                      d) Live stock
36. Amount of carbon dioxide present in atmospheric air is  
 a) 21%                      b) 0.383%                      c) 78%                      d) 0.318%
37. Estuary means  
 a) Rich in nutrients                      b) End point of the river  
 c) Meeting place of river and sea                      d) Treatment of water
38. Physical pollution of water is due to  
 a) Chlorides                      b) Turbidity                      c) PH                      d) All of these
39. Control of water Borne diseases can be achieved effectively in a community by  
 a) Defluoridation                      b) Disinfection                      c) Sterilization                      d) Vaccination
40. Ozone layer thickness is measured in which units  
 a) PPM                      b) PPB                      c) Db                      d) DU



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41. Eutrophication means
  - a) Quality of water in lakes
  - b) Enrichment of plant nutrients in water
  - c) Water purification technique
  - d) Meeting point of river and sea.
42. Earth's body temperature is approximately equal to \_\_\_\_?
  - a) 16.4°C
  - b) 16.6°C
  - c) 36°C
  - d) 21.6°C.
43. Presence of BOD in drinking water indicates
  - a) Rich content of oxygen
  - b) Organic matter
  - c) Turbidity
  - d) Physical impurities
44. Which of the following is a natural source of Air pollution?
  - a) Acid rain
  - b) Precipitation
  - c) Storms
  - d) Volcanic eruption
45. Effect of carbon monoxide on blood, causing
  - a)  $H_2CO_3$
  - b)  $COHb$
  - c)  $CO_2Hb$
  - d)  $HbCO_2$
46. Demography means
  - a) Study on forest
  - b) Study, on Human activities
  - c) Study on earthquake
  - d) Study, on population growth
47. Freon's are called
  - a) Hydrocarbons
  - b) Ozone
  - c) Methane
  - d) Solvents
48. Which of the following is a biodegradable pollutant?
  - a) DDT
  - b) Sewage
  - c) CFC
  - d) Freon's
49. Percentage of ground water available on Earth's environment is
  - a) 0.02
  - b) 0.5
  - c) 1.5
  - d) 0.2
50. During green house effect, carbondioxide and water vapours absorbs.
  - a) Short wave radiations
  - b) Long wave radiations
  - c) Solar radiation
  - d) UV radiations