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First/Second Semester B.E Degree Examination, Dec.2017/Jan.2018

**Environmental Studies**

(COMMON TO ALL BRANCHES)

[Max. Marks: 50

Time: 2 hrs.]

**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. The word Ecology is proposed by  
a) Earnst Haeckel      b) Helena curtis      c) Charles Southwick      d) Charles Alton
  2. About 3/4<sup>th</sup> of the Country's coal deposits are found in  
a) Karnataka      b) Bihar and Orissa      c) Tamil Nadu      d) Kashmir
  3. Alternative eco – friendly fuel for automobiles is  
a) Petrol      b) Diesel      c) CNG      d) Kerosene
  4. The major objectives of family welfare programmes in India is  
a) Disease control      b) Employment generation  
c) Population growth      d) Population growth rate control
  5. Demography is the study of  
a) Animal behaviour      b) River  
c) Population growth      d) None of these
  6. Acid Rain has been increasing day by day due to  
a) Urbanisation      b) Industrialization  
c) Increase in vehicle population      d) None of these
  7. Bhopal Gas Tragedy was caused due to leakage of  
a) Methyl Iso-cyanate      b) Methyl Iso cyanide  
c) Sulphur – dioxide      d) Methane

8. Environment (Protection) Act was enacted in the year,  
 a) 1992                      b) 1986                      c) 1984                      d) 1974
9. The water (prevention and control of pollution) Act was enacted in the year  
 a) 1994                      b) 1986                      c) 1974                      d) 2004
10. The Karnataka State Pollution Control Board (KSPCB) was established in the year  
 a) 1986                      b) 1976                      c) 1947                      d) 1982
11. The leader of Chipko movement is  
 a) Aravind Kejriwal                      b) Anna Hajare  
 c) Sunderlal Bahuguna                      d) Medha Patkar
12. Which pyramid is always upright  
 a) Biomass                      b) Food chain                      c) Number                      d) Energy
13. Eutrophication is  
 a) The result to accumulation of plant nutrients in water bodies  
 b) A process in carbon cycle  
 c) An improved quality of water in lakes  
 d) A water purification technique.
14. Which of the following are natural sources of air pollution  
 a) Solar flair                      b) Volcanic eruption                      c) Earthquake                      d) All the above
15. Environmental pollution is due to  
 a) Rapid urbanisation                      b) Deforestation                      c) 'a' and 'b' as above                      d) Aforestation
16. Which of the following is not a renewable resource of energy  
 a) Solar energy                      b) Tidal wave energy                      c) Wind energy                      d) Fossil fuels
17. Nuclear fusion uses as the following as fuel,  
 a) Carbon                      b) Helium                      c) Hydrogen                      d) Water
18. In Hydro power plants power is generated by  
 a) Hydrogen                      b) Water                      c) Sun                      d) Wind
19. Bio – gas is gaseous fuel composed mainly of  
 a) Methane and Carbon dioxide                      b) Methane and Hydrogen sulphide  
 c) Methane and Carbon monoxide                      d) None of these
20. The ground water depends on  
 a) Geological formation                      b) Amount of rainfall  
 c) Run off                      d) All the above
21. Mineral Resources are,  
 a) Renewable                      b) Available plenty                      c) Non-renewable                      d) Equally distributed
22. What is the maximum allowable concentration of Fluoride in drinking water?  
 a) 1.25 mg/ltr                      b) 1.50 mg/ltr                      c) 1.75 mg/ltr                      d) 1.0 mg/ltr

23. World Environment day is on ,  
 a) 5<sup>th</sup> May                      b) 5<sup>th</sup> June                      c) 16<sup>th</sup> August                      d) 18<sup>th</sup> July
24. Global warming could affect,  
 a) Climate                      b) Increase in sea level  
 c) Melting of glaciers                      d) All the above
25. Cancer and related diseases are caused due to  
 a) Primary radiation                      b) Non – Ionising radiation  
 c) Ionizing radiation                      d) Secondary radiation
26. In an eco – system biological cycling of materials is maintained by,  
 a) Producer                      b) Consumer                      c) Decomposer                      d) All the above
27. Fossil fuels largely consists of  
 a) Hydro carbons                      b) Hydrogen sulphide  
 c) Hydrochloride acid                      d) Carbon dioxide
28. EIA - means,  
 a) Environmental Industrial Impact                      b) Eco – Industrial Act  
 c) Eco – Impact Assessment                      d) Environmental Impact Assessment
29. Typhoid , Cholera are examples of  
 a) Viral infection                      b) Bacterial infection  
 c) Protozoan infection                      d) None of these
30. Deep deposits of minerals are moved by,  
 a) Surface mining                      b) Subsurface mining                      c) Open pit mining                      d) Dredging
31. Water Quality involves the measuring of the number of Colonies of,  
 a) Coliform bacteria                      b) Protozoa                      c) Productive use                      d) Auxiliary use
32. Animal husbandary may result in  
 a) Acid rain                      b) Ozone depletion                      c) Global warming                      d) Snow fall
33.  $\Delta$  \_\_\_\_\_ is step in food chain.  
 a) Community                      b) Biosphere                      c) Food web                      d) Tropic level
34. Mina mata episode of Japan is due to the poisoning of  
 a) Lead                      b) Nickel                      c) Mercury                      d) Cadmium
35. Percentage of Fresh water available on the earth is ,  
 a) 2.8%                      b) 2.2%                      c) 0.6%                      d) 2.15%
36. Blue baby syndrome (Methaemoglobinemia) is caused by the contamination of water due to  
 a) Phosphorus                      b) Sulphur                      c) Arsenic                      d) Nitrates

37. Discharge of Industrial waste cause  
 a) Depletion of dissolved oxygen      b) Destroy aquatic life  
 c) Impair biological activity            d) All the above
38. "Earth day" is held every year on  
 a) June 5<sup>th</sup>                                      b) November 23<sup>rd</sup>                              c) April 22<sup>nd</sup>                              d) January 26<sup>th</sup>
39. Chernobyl nuclear disaster took place in  
 a) 1992    b) 1982    c) 1993    d) 1996
40. Wind energy depends on  
 a) Direction of wind                              b) Velocity of wind  
 c) Humidity    d) Precipitation
41. Electro magnetic radiation can cause  
 a) Luekamia                                      b) Genetic disease                              c) Cancer                                      d) All the above
42. What is the p<sup>H</sup> range of drinking water  
 a) 6 to 9    b) 6.5 to 8.5                                      c) 6 to 8.5                                      d) 6.5 to 7.5
43. Water without Fluoride causes  
 a) Carrosion                                      b) Dental cavities                              c) Scale formation                              d) tooth decay
44. 50% of Green house gases contains  
 a) CO<sub>2</sub>    b) CH<sub>4</sub>    c) CFC    d) O<sub>3</sub>
45. Byssinosis victims are.  
 a) Cotton mill workers    b) Paper mill workers    c) Sugar mill workers    d) Floor mill workers
46. Unit for Noise measurement  
 a) Decibel    b) Gigabyte    c) Megabyte    d) Mm of Hg
47. The World's highest life expectancy is that of  
 a) Japan    b) Africa    c) South America                                      d) East Africa
48. 1980, Indian Forest Act deals with  
 a) National Forest Policy                              b) Restriction on hunting  
 c) Establishment of Sanctuaries                              d) All the above
49. 1948, Indian Factories Act  
 a) Protection to workers against hazardous process.  
 b) Monitoring station established  
 c) Salary    d) Housing
50. The P – Triangle is composed of  
 a) Biodiversity    b) Population, Poverty and Pollution  
 c) Poverty, Flood and Drought                              d) People.

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