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Question Paper Version : B

**First/Second Semester B.E Degree Examination, January 2013****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.**

1. Which of the following is not a greenhouse gas?  
a) CO<sub>2</sub>    b) CH<sub>4</sub>    c) CFC    d) H<sub>2</sub>
2. Ionizing radiations of ecological importance are  
a) α - rays    b) β - rays    c) γ - rays    d) all of these
3. The proportion of methane in biogas is  
a) 20 to 30%    b) 10 to 30%    c) 60 to 70%    d) 80 to 90%
4. Which is not a natural disaster?  
a) Cyclone    b) Nuclear explosion    c) Earthquake    d) Volcano
5. Landslides are caused by  
a) earthquakes    b) dam building    c) mining    d) all of these
6. In the world's population, India accounts for  
a) 10%    b) 5%    c) 25%    d) 16%
7. World Environmental Day is celebrated on  
a) 5<sup>th</sup> June    b) 11<sup>th</sup> June    c) 12<sup>th</sup> January    d) 8<sup>th</sup> September
8. Excess fluorides in drinking water is likely to cause  
a) blue babies    b) flurosis    c) taste and odour    d) intestinal irritation
9. The leader of Chipko movement is  
a) Sunderlal Bahuguna    b) Medha Patkar    c) Vandana Shiva    d) Suresh Heblikar
10. E.I.A. can be expanded as  
a) Environment and Industrial Act    b) Environment and Impact Activities  
c) Environment Impact Assessment    d) Environmentally Important Activity
11. Environmental Education is targeted to  
a) general public    b) professional social groups    c) technicians and scientists    d) all of these
12. Bhopal gas tragedy caused due to leakage of  
a) Methyl Iso Cyanate (MIC)    b) Sulphur dioxide    c) Mustard gas    d) Methane
13. Which state is having highest women literacy rate in India?  
a) Karnataka    b) Punjab    c) Rajasthan    d) Kerala
14. The virus that causes AIDS is  
a) HIV    b) TMV    c) H1N1    d) none of these
15. Kala-azar is spread by  
a) tape worms    b) rats    c) mosquitoes    d) sand flies
16. Energy flow in any ecosystem is always  
a) bidirectional    b) unidirectional    c) multidirectional    d) none of these
17. Sundarbans is the name of place in  
a) Assam    b) West Bengal    c) Karnataka    d) All of these
18. Mangrove forests are seen in  
a) Mumbai    b) Nicobar Islands    c) West Bengal    d) All of these
19. Rearing fish is called  
a) pisciculture    b) sericulture    c) fishiculture    d) horticulture
20. Western Ghats are not located in  
a) North-East India    b) Maharashtra    c) Peninsular India    d) Gujarat
21. Radiation is a health hazard because it leads to  
a) typhoid    b) cancer    c) colour blindness    d) pneumonia
22. Which of these gases causes air pollution?  
a) Nitrogen    b) Hydrogen    c) Water vapour    d) Carbon monoxide

23. Kitchen Wastes contain  
a) non-biodegradable pollutants    b) biodegradable pollutants    c) radioactive pollutants    d) none of these
24. Water pollution is caused by  
a) sewage    b) industrial effluents    c) discharge from forms    d) all of these
25. D.D.T. pollutes  
a) air    b) water    c) soil    d) all of these
26. Which of the following is not a biodegradable pollutant?  
a) Plastic    b) Skins of vegetables and fruits    c) Dry leaves    d) Paper
27. Minamata disease is caused by  
a) cadmium    b) strontium    c) mercury    d) uranium
28. BOD stands for  
a) Biochemical Oxygen Demand    b) Biological Oxygen Demand  
c) Biogeochemical Oxygen Demand    d) None of these
29. Greenhouse effect is caused by excess of  
a) CO<sub>2</sub>    b) H<sub>2</sub>    c) He    d) O<sub>2</sub>
30. Photochemical smog is caused by  
a) PAN + O<sub>2</sub>    b) PAN + O<sub>3</sub>    c) O<sub>3</sub> + O<sub>2</sub>    d) PAN + CO<sub>2</sub>
31. The percentage of water accounted by oceans and seas, is  
a) 90%    b) 87%    c) 97%    d) 99%
32. Salim Ali was an expert in  
a) agricultural sciences    b) rainwater harvesting    c) ornithology    d) environmental law
33. Which of the following diseases is not spread by water?  
a) diarrhea    b) chickenpox    c) cholera    d) dysentery
34. D.D.T. is a  
a) fungicide    b) pesticide    c) fertilizer    d) disinfectant
35. Which of the following waste material is degradable?  
a) plastic    b) metal    c) glass    d) paper
36. Coal is a  
a) renewable source of energy    b) inexhaustible source of energy  
c) non-renewable source of energy    d) none of these
37. Which of the following is a non-polluting source of energy?  
a) Coal    b) Petroleum    c) Natural gas    d) Solar energy
38. Deforestation is majorly caused by  
a) mining    b) overgrazing    c) dam building    d) all of these
39. Major dams may cause  
a) earthquakes    b) hurricanes    c) storms    d) cyclones
40. Maximum usage of water is in the field of  
a) industries    b) homes    c) agriculture    d) none of these
41. Medha Patkar is famous for  
a) Chipko Movement    b) Narmada Bachao Andolan    c) Green Revolution    d) Silent Valley Project
42. Examples of renewable resources are  
a) wind energy    b) solar energy    c) tidal energy    d) all of these
43. Biogas is made up mostly of  
a) hydrogen    b) carbon dioxide    c) ethane    d) methane
44. Pyramid of numbers in a pond ecosystem is always  
a) inverted    b) erect    c) irregular    d) none of these
45. Cycling of materials in the biosphere is called  
a) biochemical cycle    b) biophysical cycle    c) biogeochemical cycle    d) geochemical cycle
46. Pyramid of energy is always  
a) inverted    b) erect    c) rectangular    d) none of these
47. Herbivores are  
a) primary producers    b) consumers    c) decomposers    d) all of these
48. The sequence of organisms in a food chain is  
a) consumer → producer → decomposer    b) decomposer → consumer → producer  
c) producer → decomposer → consumer    d) producer → consumer → decomposer
49. Which of the following is a top carnivore?  
a) Tiger    b) Crocodile    c) Hawk    d) All of these
50. One method of Nitrogen fixation in nature is by  
a) thunder    b) rain    c) lightning    d) storm