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Question Paper Version : D

I / II Semester B.E Degree Examination, December 2010
ENVIRONMENTAL STUDIES
(COMMON TO ALL BRANCHES)

Time: 2 hrs.]

[Max. Marks: 50

INSTRUCTIONS TO THE CANDIDATES

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

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1. Identify the nonrenewable source of energy from the following :
a) Coal b) Solar Energy c) Wind power d) Water power
 2. Conversion of nitrates into gases of nitrogen is called ____
a) Nitrification b) Nitrogen fixing c) Reduction d) Dinitrification
 3. Cholera and typhoid are caused by
a) Worms b) Bacteria c) Virus d) Fungus
 4. Disfigurement in the teeth is caused by excessive amount of
a) Fluoride b) Nitrate c) Mercury d) Calcium
 5. Solar radiation consists of
a) UV rays b) Visible light c) Infrared rays d) All of these
 6. Which of the following is the conventional source of energy?
a) Hydel - power b) Thermal power c) Nuclear power d) All of these
 7. Electromagnetic radiation can cause
a) Luekemia b) Cancer c) Genetic damage d) All of these
 8. Chernobyl nuclear disaster took place in
a) 1986 b) 1982 c) 1996 d) 1992
 9. Biomass consists of
a) Lignin b) Cellulose c) Hemi cellulose d) All of these

10. One gram of Uranium - U235 can give an electrical energy equivalent to
 a) 1MW b) 100 MW c) 10 MW d) 1000 MW
11. A long term atmospheric impact of burning fossil fuel is _____
 a) Global warming b) Oxygen consumption
 c) Reduction in photosynthesis d) All of these
12. The process of killing infective micro – organisms is called as
 a) Disinfection b) Sedimentation c) Sterilisation d) Coagulation
13. What is the maximum allowable concentration of fluorides in drinking water?
 a) 1.5 mg/lit b) 1.0 mg/lit c) 1.25 mg/lit d) 1.75 mg/lit
14. Excess fluoride in drinking water is likely to cause
 a) Blue babies b) Fluorosis
 c) Taste and odour d) Intestinal Irritation
15. Sanitary sewage / domestic sewage is
 a) Wastewater generated from kitchens and bathrooms
 b) Wastewater generated from residential areas
 c) Water entering a sewer as a result of rainfall
 d) Wastewater from industries.
16. BOD means
 a) Biochemical oxygen demand b) Chemical oxygen demand
 c) Biophysical oxygen demand d) Biological oxygen demand
17. Smog is
 a) A natural phenomenon b) Colourless
 c) Combination of smoke and fog d) All of these
18. Maximum noise pollution limit at a residential area is
 a) 45 dB b) 80 dB c) 55 dB d) 90 dB
19. Noise pollution is controlled by
 a) Reducing the noise at the source b) Preventing its transmission
 c) Protecting the receiver d) All of these
20. Which of the following is a likely characteristic of hazardous waste?
 a) Ignitability b) Corrosivity c) Reactivity d) Any of these
21. Alternative eco – friendly fuel for automobiles is
 a) Petrol b) Diesel c) CNG d) Kerosene
22. Population explosion will cause
 a) Biodiversity b) Stress on the ecosystem
 c) More employment d) None of these
23. The meaning of global warming is
 a) Increase in temperature of climate b) Solar radiation
 c) A planet hotter than earth d) Cooling effect
24. Which greenhouse gas is colourless, non – flammable, has a sweetish odour and known as laughing gas?
 a) Methane b) Nitrous oxide c) CO₂ d) Nitric acid

38. Eutrophication is
- an improved quality of water in lakes
 - a process in carbon cycle
 - the result of accumulation of plant nutrients in water bodies
 - a water purification technique.
39. Global atmospheric temperatures are likely to be increased due to
- Burning of fossil fuels
 - Water pollution
 - Soil erosion
 - None of these
40. Which of the following is the most environmental friendly agricultural practice?
- Using chemical fertilizers
 - Using insecticides
 - Organic farming
 - None of these
41. Water logging is a phenomenon in which
- Soil root zone becomes saturated due to over irrigation
 - Crop patterns are rotated
 - Erosion of soil occurs
 - None of these
42. What would you do to prevent environmental damage?
- Plant trees
 - Halt deforestation
 - Control pollution
 - All of these
43. E.I.A can be expanded as
- Environment and Industrial Act
 - Environmental Impact Assessment
 - Environmentally Impact Activity
 - Environment and Impact Activities.
44. Habitat refers to
- Physical conditions of the place where the organisms live
 - Chemical conditions of the place where the organisms live
 - Both 'a' and 'b'
 - None of these.
45. World 'Environment – Day' is on
- 5th June
 - 16th August
 - 18th July
 - 5th May
46. A food web consists of
- A portion of a food chain
 - Interlocking food chains
 - A set of similar consumers
 - An organism position in food chain.
47. Deforestation means
- Destruction of forests.
 - Agriculture
 - Monocrop cultivation
 - Preservation of forests.
48. Which of the following statements about forest is not correct?
- Forest reduces soil erosion
 - Provides recreational opportunities
 - Provides a source of economic development
 - None of these
49. How do dams affect deforestation?
- Open previously inaccessible forest to public
 - Submerges forest
 - Damages downstream ecosystem
 - All of these
50. India has the world's largest share of
- Mica
 - Copper
 - Manganese
 - Diamond

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Question Paper Version : D

First Semester B.E. Degree Examination, January 2011
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.**
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1. The word "ecology" is derived from
a) Greek b) French c) Spanish d) English
2. Hydrological cycle mainly involves
a) Air and water b) Sun and water
c) Animal and water d) Mountain and water
3. The forest is
a) Abiotic b) Biotic c) Both a and b d) None of these
4. Most biotic resources are
a) Non renewable b) Renewable c) Jhum d) None of these
5. Store house of minerals and nutrients is :
a) Soil b) Water c) Forest d) All of these
6. The word "environment" is derived from
a) Greek b) French c) Spanish d) English
7. Abiotic components include the
a) Climate and edaphic factors b) Climate factor
c) Edaphic factor d) None of these

8. Natural ecosystem is called
 a) Anthropogenic b) Human activity c) Both a and b d) None of these
9. Hydrosphere denotes
 a) Water b) Plants c) Microorganisms d) Soil
10. Both power and manure is provided by
 a) Nuclear plants b) Thermal Plants
 c) Biogas plants d) Hydroelectric plants
11. World AIDS day is :
 a) 1st July b) 5th June c) 1st December d) 2nd October
12. Study trends in human population growth and prediction of future growth is called
 a) Demography b) Biography c) Kalogrpahy d) Psychology
13. Name the species to which human belongs
 a) Animals b) Plants c) Homosapiens d) All of these
14. What was the human population at the beginning of the 20th century?
 a) 1.2 billion b) 1.6 billion c) 1.8 billion d) 2.0 billion
15. Ozone hole is
 a) Antarctica b) Kautilya c) Earth summit d) All of these
16. Green house effect is related to
 a) Green trees b) CO₂
 c) Chlorofluorocarbons d) Methane
17. Expand WWF
 a) World Wide Life Fund b) World Wide Forest
 c) Both a and b d) None of these
18. Decomposers are
 a) Bacteria and Fungi b) Reducers c) Both a and b d) None of these
19. Large regional unit characterized by Flora and Fauna is
 a) Biosphere b) Biome c) Ecosystem d) All of these
20. One of the inexhaustible resources is
 a) Minerals b) Fossil fuels c) Solar energy d) None of these
21. A distinct unit of life in nature is :
 a) Population b) Ecosystem c) Organisms d) Landscape
22. Name of the scientist who gave the difference between Niche and Habitat, is :
 a) Odum b) Ernest Haeckel c) Grinnell d) Both a and c
23. Construction of dams has
 a) Only merits b) Only demerits
 c) Neither merits nor demerits d) Merits as well as demerits

24. The sequence of eating and being eaten in an ecosystem is called
a) Food chain b) Hydrological cycle c) Carbon cycle d) Anthropogenic
25. B.O.D. measures
a) Industrial pollution
b) Air pollution
c) Polluting capacity of effluents
d) D.O. needed by microbes for decomposition
26. What is the unit of measurement of sound?
a) dB b) Decibel c) Both a and b d) None of these
27. What is the percentage oxygen present in air?
a) 78.08% b) 21% c) 71% d) 73%
28. Weather conditions determine
a) Wind b) Temperature c) Organisms d) All of these
29. Soil conservation is a process in which
a) Soil is aerated b) Soil erosion is allowed
c) Sterile soil is made fertile d) Soil is protected against loss
30. Expand E.I.A.
a) Environmental Protection Act b) Environmental Impact Assessment
c) Environmental Impact Administration d) All of these
31. The term ecosystem was introduced by
a) Haekel b) Odum c) Tansley d) All of these
32. The short term properties of the atmosphere at a given place and time are referred as
a) Climate b) Season c) Micro climate d) None of these
33. Source of supply is called
a) Resources b) A means of meeting needs
c) Substance available d) Natural substance
34. A major nitrogen storage reservoir is
a) River b) Atmosphere c) Oceans d) Trees
35. The part of the earth in which life exists is known as
a) Lithosphere b) Biosphere c) Atmosphere d) Ionosphere
36. Environment means
a) A beautiful landscape b) Industrial Production
c) Sum total of all condition d) Air and water
37. The UN general assembly proclaimed the universal declaration of human rights in Paris in the year :
a) 1948 b) 1992 c) 1972 d) 1962

38. The leader of the Chipko movement is :
a) Ambritha Devi b) Jashibhai Patel c) Medha Patekar d) Vandhan Shiva
39. World earth day is :
a) 7th April b) 5th June c) 16th September d) 22nd April
40. Ecosystem has the following major components :
a) Plants, animals and micro organisms b) Flora and Fauna
c) Producers, consumers and decomposers d) Both a and c
41. Which of the following is a green house gas?
a) Oxygen b) SO₂ c) Chlorofluorocarbons d) All of these
42. Taj Mahal at Agra may be damaged by
a) CO₂ b) Chlorine c) Hydrogen d) None of these
43. Troposphere has an altitude range of
a) 11 – 50 km b) 0 – 11 km c) 20 – 80 km d) 80 – 200 km
44. Taungya system is
a) Agro forestry b) Inexhaustible c) Exhaustible d) Mining
45. Lithosphere means
a) Air b) Water c) Micro organism d) Rocks and soil
46. How much percentage of land is covered with forest?
a) 26% b) 19% c) 23% d) 25%
47. Human resource is a
a) Renewable b) Inexhaustible c) All of these d) None of these
48. Excess fluoride in drinking water is likely to cause :
a) Blue babies b) Fluorosis c) Taste and odour d) Irritation
49. Which among the following is a climatic factor?
a) Pressure b) Humidity c) Temperature d) All of these
50. The basic requirements of human beings are provided by
a) Industrialization b) Agriculture c) Development d) Urbanization

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