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Question Paper Version : A

I / II Semester B.E Degree Examination, June/July 2008
ENVIRONMENTAL STUDIES
(COMMON TO ALL BRANCHES)

Time: 2 hrs.] [Max. Marks: 50

INSTRUCTIONS TO THE CANDIDATES

1. Use only **Black ball point pen** for writing / 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, using whiteners** on the **OMR** sheets are strictly prohibited.

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1. The term environment was introduced by
   a) Jacob Van Verkul b) Tyler Miller c) Gilbertson d) Charles Darwin

2. An ecosystem is a region in which
   a) Dead organism interact with their environment
   b) Living organism do not interact with their environment
   c) Living organism interact with their environment
   d) All the above.

3. The term ecosystem was first proposed by
   a) Jacob Van Verkul b) A.G. Transley c) Costanza d) Marie Gibbs

4. The two major components of ecosystem are
   a) Adiabatic and isotropic b) Ecologic and climatologic
   c) Cyclic and biologic d) Abiotic and biotic

5. Biotic components include
   a) All living organisms b) Water, mineral and gases
   c) Self-nourishing green plants d) Light, temperature etc.

6. Food chain is divided into ---------- basic categories
   a) Four b) Three c) Five d) Seven

7. Inverse condition is the
   a) Increase in temperature with latitude b) Decrease in temperature with altitude
   c) Increase in temperature with altitude d) Decrease in temperature with latitude.

8. Sustainable development
   a) Discourages environmentally economic growth
   b) Encourages environmentally economic growth
   c) Encourages environmentally harmful and unsustainable forms of economic growth
   d) All the above.

9. Agricultural revolution began
   a) 1000-2000 years ago
   b) 1 Million years ago
   c) 30,000- 50,000 years ago
   d) 10,000-20,000 years ago

10. The transfer of energy and nutrients from one feeding group of organisms to another in a series is called
   a) Energy chain b) Food chain c) Balanced ecosystem d) Food web

11. During the last 30 years the percentage decrease in agricultural land due to urbanization is about
   a) 40% b) 60% c) 30% d) 0%

12. Smog is combination of
   a) Smoke and fog b) Snow and fog c) Smoke and snow d) All the above

13. EIA means
   a) Environmental industrial impact
   b) Eco industrial act
   c) Eco impact assessment
   d) Environmental impact assessment

14. Deep deposits of minerals are removed by
   a) Surface mining b) Subsurface mining c) Open pit mining d) Dredging

15. The surface water resources of India is estimated as
   a) 400 million hectare meters
   b) 600 million hectare meters
   c) 100 million hectare meters
   d) 4000 million hectare meters

16. Water used for irrigation of food crops, fodder crops and medical herbs in known as
   a) Consumptive use b) Commercial use c) Productive use d) Auxiliary use

17. Water quality involves measuring the number of colonies of
   a) Coliform bacteria b) Protozoa c) Cells d) Chromozomes

18. Typhoid, Cholera are examples of
   a) Viral infection
   b) Bacterial infection
   c) Protozoan infection
   d) None of the above

19. The earth's land surface covered by forest is about
   a) $\frac{1}{4}$ b) $\frac{2}{3}$ c) $\frac{1}{3}$ d) $\frac{1}{5}$

20. Decreased soil fertility through rapid leaching of the essential mineral nutrients is due to
   a) Reforestation
   b) Deforestation
   c) Over exploitation
   d) Recycling of forest products.

21. About ¾ of the country's coal deposits are found in
   a) Karnataka b) Tamil Nadu c) Kashmir d) Bihar and Orissa

22. A major carbon storage reservoir in the carbon cycle is
a) Rivers b) Atmosphere c) Oceans d) Trees

23. The volume of nitrogen present in the toposphere is
a) 85% b) 78% c) 21% d) 5%

24. Smelting of metallic minerals into copper, lead and zinc release large amounts of
a) Carbon dioxide b) Nitric oxide c) Sulphur dioxide d) Hydrogen Sulphide

25. Non-point source of water pollution is caused by
a) Pipes b) Sewers c) Ditches d) Mining wastes

26. The quantity of solar energy received by the earth is
a) 5% b) 15% c) 99% d) 45%

27. The total percentage of non-renewable energy sources available is
a) 18 b) 82 c) 30 d) 6

28. Good example of renewable energy resource is
a) Hydropower b) Coal c) Oil d) All the above

29. The basic element in fossil fuels is
a) Sulphur b) Phosphorus c) Carbon d) Oxygen

30 The energy released by the decay of one U-235 atom will be of the order of
a) 100 MeV b) 10 MeV c) 200 MeV d) 2000 MeV

31. Good example of sedimentary cycle is
a) Carbon cycle b) Oxygen cycle c) Nitrogen cycle d) Sulphur cycle

32. Energy is measured in
a) Blu b) Bhu c) Btu d) Ntu

33. Renewable energy is
a) Primary source b) Secondary source c) Tertiary source d) None of the above

34. The energy consumption for global transportation is
a) 42% b) 24% c) 4% d) 34%

35. Annual oil consumption in India is about
a) 3.25 million tons b) 325 million tons c) 32.5 million tons d) 32.5 billion tons

36 Electromagnetic radiation energy is an energy in the form of
a) Light b) Wave c) Heat d) All the above

37. Cancer and related diseases are caused due to
a) Primary radiation b) Non-ionizing radiation
c) Ionizing radiation d) Secondary radiation

38. Hydropower potential of India is estimated to be
a) 4×10^{11} MW hours b) 4×10^{11} kW hours
c) 40×10^{11} kW hours d) 40×10^{11} MW hours

39. Fossil fuels largely consist of
a) Hydrocarbons b) Hydrogen sulphide
c) Hydrochloric acid d) Carbon dioxide

40. The coal deposits of earth is about
a) 27350 million metric tons b) 27350 metric tons
c) 27350 billion metric tons d) 2735 billion metric tons

41. Existing oil reserves of the earth could last for about
a) 5000 years b) 500 years c) 5 years d) 50 years

42. Fermentation in the biogas plant is carried out between
a) $350 - 500^0C$ b) $30 - 50^0C$ c) $85 - 150^0C$ d) None of the above

43. Percentage methane content of biogas is
a) 5.5 b) 85 c) 55 d) 0.55

44. Hydrogen is found on earth in combination with
a) Sulphur b) Helium c) Copper d) Oxygen

45. The term acid rain was coined in the year
a) 1952 b) 1852 c) 1652 d) 1752

46. The major contributors to the acid rain are known as
a) Precursors b) Processors c) Protons d) Pollutants

47. The equivalent of one Dobson unit is
a) 0.1 mm b) 0.01 mm c) 0.1 m d) 0.01 m

48. Ozone hole is said to occur when the ozone level decreases below
a) 200 DV b) 2000 DV c) 20 DV d) 2 DV

49. Animal husbandry may result in
a) Acid rain b) Ozone depletion c) Global warming d) Snow fall

50. The Mahila Arthik Vikas Mahamandal (MAVIM) was setup in the year
a) 1955 b) 1965 c) 1975 d) 1985