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Question Paper Version : C

# First/Second Semester B.E Degree Examination, June/July 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.**
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. Population stabilization is essential for
   a) sustainable development b) economic growth
   c) agriculture improvement d) industrial development

2. Cholera, Typhoid, Meningitis and Hepatitis are the diseases caused due to
   a) electromagnetic radiation b) radioactive rays
   c) dirty water d) x-rays

3. Presence of high levels of nitrates in water causes
   a) dehydration b) obesity c) Blue-baby-syndrome d) Pneumonia

4. Which of the following is a natural source of environmental pollution?
   a) Sewage b) Industries c) Automobiles d) Earthquake

5. The depletion of trees is causing accumulation of
   a) $NO_2$ b) $SO_2$ c) $CO_2$ d) $O_2$

6. _____ is the best environmental clean alternative fuel.
   a) Diesel b) CNG c) Coal d) Petrol

7. Direct conversion of solar energy is attained by
   a) Solar photovoltaic system b) Galvanic cells
   c) Electrolytic cells d) Hydrogen fuel cells

8. Nuclear power plant in Karnataka is located at
   a) Bhadravathi b) Sandur c) Kaiga d) Raichur

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9. Nuclear fusion reaction occurs in the
a) sun b) stars c) hydrogen bomb d) All of these.

10. Demography is the study of
a) Animal behaviour b) Population growth c) Rivers d) All of these.

11. Smog is a
a) natural phenomenon b) colourless gas
c) combination of smoke and fog d) none of these.

12. Air pollution from automobiles can be controlled by fitting
a) electrostatic precipitator b) wet scrubber
c) catalytic converter d) all the above.

13. 'Minamata' disease is caused by
a) Lead b) Mercury c) Cadmium d) Arsenic

14. The major objective of the family welfare programs in India is
a) disease control b) population growth rate control
c) employment generation d) None of these

15. The protocol that reduces green house gas emissions is
a) Kyoto protocol b) Cartagena protocol c) Montreal protocol d) Vienna protocol

16. Green house effect causes
a) lowering in temperature of earth b) rise in temperature of earth
c) lowering of acid rain d) increase in rainfall.

17. Excess of fluoride in drinking water is likely to cause
a) Hepatitis b) Stomach upset c) Cholera d) Fluorosis

18. Primary cause of acid rain around the world is due to
a) carbon dioxide b) suphur dioxide c) carbon monoxide d) Ozone

19. Major compounds responsible for the destruction of Ozone layer is
a) oxygen b) CFCs c) $CO_2$ d) $CH_4$

20. Which of the following is the remedial measure for acid rain?
a) Reducing the release of oxides of nitrogen and sulphur into the atmosphere
b) Use of coal, free from sulphur
c) Use of electrostatic precipitator and catalytic converters
d) All of these.

21. The radiations absorbed by ozone layer are
a) Infra-red b) Ultra-violet c) Gamma rays d) Visible

22. Bhopal gas tragedy occurred due to the leakage of
a) Methyl Isocyanate b) Sulphur dioxide c) Mustard gas d) Methane gas

23. Environmental protection is the responsibility of
a) Government of India b) NGO's
c) Individuals d) All

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24. Which of the following is NGO?
a) Bengaluru Mahanagara Palike
b) Narmada Bachao Andolan
c) Karnataka Power Corporation Limited
d) None of these

25. The objectives of the Wild Life (protection) Act 1972 is
a) To preserve the biodiversity
b) To maintain essential ecological and life supporting systems
c) Protection and conservation of wild life
d) All the above

26. Which of the following is the authority to monitor state industrial effluents?
a) Centre for science and development
b) State pollution control board
c) Indian environmental association
d) None of these

27. Environmental education is targeted to
a) General public
b) Professional social groups
c) Technicians and scientists
d) All of these

28. Trickle irrigation reduces
a) Percolation
b) Salinization
c) Water evaporation
d) All of these

29. Hydro electricity is generated from
a) Lakes and ponds
b) Coal plants
c) Water reservoir of river dams
d) Forests

30. The pollution caused by transportation depends on
a) Type of vehicle's engine
b) Age of vehicle
c) Traffic congestion
d) All of these

31. Which of the following resource is inexhaustible?
a) Solar
b) Fossil fuel
c) Mineral
d) Coal

32. Cow dung can be used
a) As manure
b) For production of biogas
c) Both (a) and (b)
d) None of these

33. Recycled water can be used for
a) Crop irrigation
b) Landscape gardening
c) Replenishing fast depleting aquifers
d) All of these

34. Noise pollution limit in industrial area is
a) 95 dB
b) 80 dB
c) 65 dB
d) 100 dB

35. Solar radiations consist of
a) Infra-red region
b) Visible region
c) Both (a) and (b)
d) None of these

36. Liquefied petroleum gas is a mixture of
a) Methane and ethane
b) Propane and butane
c) Methane and butane
d) Methane and propane

37. Global warming affects
a) Food production
b) Melting of glaciers
c) Climate change
d) All of these

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38. The science of animal husbandry is called
a) Animal science b) Human science c) Soil science d) Plant science

39. Chernobyl nuclear disaster occurred in the year
a) 1987 b) 1986 c) 1982 d) 1980

40. Environment Protection Act of 1986 is meant for
a) Waste management
b) Desert management
c) Forest management
d) Protection of human environment including human, plants, animals and property

41. The sequence of eating and being eaten in an ecosystem is called
a) carbon cycle b) food chain c) sulphur cycle d) hydrological cycle

42. The adverse effect of modern agriculture is
a) water pollution b) soil pollution c) water logging d) All the above.

43. An animal that feeds upon another animal is
a) consumer b) producer c) predator d) decomposer

44. Which part of plant contains nitrogen fixing bacteria?
a) Roots b) Stems c) Leaves d) Flowers

45. Green revolution is
a) Crop variety improvement b) Judicious use of fertilizers
c) Expansion of irrigation d) All the above.

46. The important goal of a EIA is to
a) increase pollution level b) resource conservation
c) stop developmental activities d) deforestation

47. Organic farming is
a) farming without using pesticides and chemical fertilizers
b) enhancing biodiversity
c) Promoting soil biological activity
d) All the above.

48. Percentage of nitrogen in earth's atmosphere is
a) 98% b) 78% c) 21% d) 12%

49. Eutrophication results from
a) industrial effluents b) vehicular exhausts
c) accumulation of plant materials in water bodies d) purified water

50. 'Earth Day' is held every year on
a) June 5th b) April 22nd c) November 23rd d) January 26th

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