CBCS SCHEME

BESK508

USN

Question Paper Version : A

Fifth Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026
Environmental Studies

Time: 1 hr. 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. The word Ecology is proposed by
   a) Ernst Haeckel b) Helena Curtis
   c) Charles Southwick d) Charle's Darwin

2. In a grass → deer → tiger, food chain, the biomass of grass is 1 ton. The tiger biomass will be
   a) 100 kg b) 10 kg
   c) 150 kg d) 1 kg

3. Increase in fauna and decrease in flora would be harmful due to increase in
   a) Diseases b) CO_2
   c) O_2 d) Radioactive pollution

4. Most stable ecosystem is
   a) Forest b) Desert
   c) Ocean d) Mountain

5. Which one of the following is an abiotic component of the ecosystem?
   a) Bacteria b) Plants
   c) Humus d) Fungi

6. Under nourished population is more in
   a) Asia and pacific b) Europe
   c) Australia d) South America

7. Phytoplankton in an aquatic ecosystem can be considered as a
   a) Macro-consumer b) Consumer
   c) Producer d) Organism

8. The word environment is derived from
   a) Greek language b) French language
   c) English language d) Spanish language

9. Which ecological pyramid is always straight?
   a) Pyramid of biomass b) Pyramid of numbers
   c) Pyramid of energy d) Both (a) and (b)

10. The World Food Summit (1996) is pledged to reduce the number of hungry people to
    a) 500 million b) 400 million
    c) 250 million d) 100 million

11. One joule of energy is equivalent to
    a) 0.2389 calories b) 23.89 calories
    c) 238.9 calories d) 2.389 calories

12. Which of the following is used as moderator in nuclear reactor?
    a) Graphite b) Helium gas
    c) Heavy water d) All of these

13. Biomass consists of
    a) Lignin b) Cellulose
    c) Hemicellulose d) All of these

14. Hydrogen can be produced commercially by
    a) Cracking of ammonia b) Electrolysis of water
    c) Both (a) and (b) d) Gasification

15. One gram of $92^{U^{235}}$ can give electrical energy equivalent to
    a) 100 MW b) 1000 KW
    c) 1 MW d) 1000 MW

16. Deforestation generally decreases
    a) Rainfall b) Draught
    c) Soil erosion d) Global warming

17. Forests are effective sinks of
    a) O_2 b) CO_2
    c) NO d) All of these

18. Percentage of fresh water available on the earth is
    a) 2.8% b) 0.1%
    c) 10.6% d) 12.15%

19. Forest and wild life are
    a) Non renewable resources b) Renewable resources
    c) On exhaustible d) None of these

20. Mineral is
    a) Organic matter b) Synthetic compound
    c) Naturally occurring in organic substance d) None of these

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21. Acid rain is caused by increase in the atmospheric concentration of
a) Ozone and dust
b) SO_2 and NO_2
c) SO_3 and CO
d) CO_2 and CO

22. Main components of smog are
a) Unsaturated hydrocarbons
b) NO_X
c) Sulphur compound
d) All of these

23. Dysentry spread due to
a) Food adultration
b) Humid weather
c) Water pollution
d) Air pollution

24. Which is the most valuable recyclable component of a circuit board?
a) Copper
b) Silver
c) Gold
d) Platinum

25. The liquid waste water from baths and kitchen is called
a) Sullage
b) Domestic sewage
c) Storm water
d) Run-off

26. Bio medical waste may be disposed off by _____
a) Incineration
b) Autoclaving and land filling
c) Both (a) and (b)
d) None of these

27. Noise is
a) Load sound
b) Unwanted sound
c) Constant sound
d) Sound of high frequency

28. The process of decomposing organic waste in the presence of air is called _____
a) Reduction
b) Oxidation
c) Incineration
d) Pulverizing

29. Afforestation is necessary for
a) Soil conservation
b) Soil erosion
c) Well control
d) Low humidity

30. Biomedical waste should be treated within
a) 48 hrs
b) 12 hrs
c) 56 hrs
d) 32 hrs

31. Global warming is an
a) Ocean phenomenon
b) Atmospheric phenomenon
c) Soil phenomenon
d) None of these

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

33. Formation of hole in ozone layer is maximum over
a) India
b) Antarctica
c) Europe
d) Africa

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34. International protocol to protect the ozone layer is
a) Kyotoprotocol
b) Montreal protocol
c) Vienna protocol
d) Basel protocol

35. Excess fluoride in drinking water is likely to cause
a) Blue babies
b) Flourosis
c) Taste and odour
d) None of these

36. Which of the following is not an ideal solution for tackling water crisis?
a) Drilling large number of deep bore wells
b) Population growth control
c) Water conservation in irrigation
d) Water pollution control

37. The average thickness of the ozone layer in stratosphere is
a) 1000 DU
b) 100 DU
c) 50 DU
d) 230 DU

38. Increasing skin cancer and high mutation rate are the result of
a) Ozone layer depletion
b) Acid rain
c) CO_2
d) CO

39. Bhopal gas tragedy occurred due to the leakage of
a) SO_2
b) CH_4
c) Fly ash
d) Methyl ISO cyanate

40. Environmental pollution is a
a) State problem
b) Global problem
c) Countries problem
d) Regional problem

41. Environmental protection is the fundamental duties of citizen of India under the article
a) 51 – A (g)
b) 48 – A
c) 47
d) 21

42. The Environmental Protection Act of India was enacted in the year
a) 1986
b) 1992
c) 1984
d) 1974

43. The Government of India enacted the water (prevention and control of pollution) Act in the year
a) 1972
b) 1974
c) 1977
d) 1978

44. Which of the following is an NGO?
a) Narmada Bachao Andolan
b) Bombay Natural History Society
c) Centre for science and Environment
d) All of these

45. In which year the Hon. Supreme Court of India directed to made environmental education as a compulsory subject at all levels of education?
a) 2003
b) 1997
c) 2002
d) 1986

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46. First of the major environmental protection acts to be promulgated in India was
a) Water Act
b) Air act
c) Environment Act
d) None of these

47. Chernobyl nuclear disaster took place in the year
a) 1984
b) 1985
c) 1986
d) 1987

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48. The Air (prevention and control of pollution) Act enacted in the year
a) 1972
b) 1981
c) 1982
d) 1984

49. Karnataka State pollution control board established in the year
a) 1974
b) 1982
c) 1986
d) 1976

50. World Environment Day is celebrated on
a) 5th June
b) 5th July
c) 5th March
d) 5th April

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