

CBCS SCHEME

BESK508

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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) CO₂
c) O₂
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 ^{235}U 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

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. Dysentery spread due to
a) Food adulteration
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

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) CO₂
d) CO
39. Bhopal gas tragedy occurred due to the leakage of
a) SO₂
b) CH₄
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

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
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
