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Question Paper Version : A

## Fifth Semester B.E./B.Tech. Degree Examination, June/July 2025 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. Ecosystem may be defined as
    - a) A species along with environment
    - b) Plants found in water
    - c) Plants found on land
    - d) Plants and animals species along with environment
  2. The word Ecology is proposed by
    - a) Ernst Haecal      b) Helena Curtis      c) Charles Southmick      d) Charles Atlon
  3. Which forest has maximum diversity?
    - a) Sub – tropical rainforests      b) Coniferous forest
    - c) Tropical forest      d) Deciduous forest
  4. The upper part of an aquatic ecosystem contains
    - a) Nekton      b) Plankton      c) Benthos      d) Both (a) & (b)
  5. Earth day is held every year on
    - a) June 5<sup>th</sup>      b) November 23<sup>rd</sup>      c) April 22<sup>nd</sup>      d) January 26<sup>th</sup>
  6. What are the examples of primary producers?
    - a) Omnivores      b) Green plants and algae
    - c) Animals      d) Carnivorous
  7. Ecosystem is smallest unit of
    - a) Ionosphere      b) Lithosphere      c) Mesosphere      d) Biosphere
  8. The following are the abiotic components of the Ecosystem
    - a) Soil      b) Carbon      c) Protein      d) All of these

9. The two major components of ecosystem are
  - a) Adiabatic & Isotropic
  - b) Ecological and Climatologic
  - c) Cyclic & Biologic
  - d) Abiotic & Biotic
10. The Oceans are the largest storage of water on earth containing.
  - a) 95 % of earth's water
  - b) 85 % of earth's water
  - c) 97 % of earth's water
  - d) 75 % of earth's water
11. In hydroelectric power, what is necessary for the production of power throughout the year?
  - a) Dams filled with water
  - b) High amount of air
  - c) High intense sunlight
  - d) Nuclear power
12. Sustainable development means
  - a) Meeting present needs without compromising on the future needs
  - b) Progress in human well beings
  - c) Balance between human needs and the ability of earth to provide the resources
  - d) All of these
13. Mining means
  - a) To conserve and preserve minerals
  - b) To check pollution due to mineral resources
  - c) To extract minerals of ores
  - d) None of these
14. The main composition of biogas is
  - a) Methane
  - b) Carbon – di – oxide
  - c) Nitrogen
  - d) Hydrogen
15. Which among the following have a large amount of installed grid interactive renewable power capacity in India?
  - a) Wind power
  - b) Solar power
  - c) Biomass power
  - d) Small hydropower
16. The World's first 100% solar powered airport is located at
  - a) Cochin , Kerala
  - b) Bengaluru , Karnataka
  - c) Mumbai , Maharashtra
  - d) Chennai , Tamilnadu
17. In the production of wave energy which form of Energy is used.
  - a) Potential Energy
  - b) Kinetic Energy
  - c) Solar Energy
  - d) Wind Energy
18. OTEC is an energy technology that converts.
  - a) Energy is large tides of ocean to generate electricity
  - b) Energy in ocean wave to generate electricity
  - c) Energy in ocean due to thermal gradient to generate electricity
  - d) Energy in the fast moving ocean currents to generate electricity
19. Which place in India the tidal energy has been experimented?
  - a) Goa
  - b) Karnataka
  - c) Tamil Nadu
  - d) Kerala
20. How much of the known universe mass is made up of hydrogen?
  - a) 62 %
  - b) 75 %
  - c) 99 %
  - d) 10 %
21. Soil erosion removes soil which contains
  - a) Organic matter
  - b) Plant nutrients
  - c) Both (a) & (b)
  - d) None of these



22. The adverse effect of modern agriculture is  
a) Water pollution    b) Soil degradation    c) Water logging    d) All of these
23. Which of the following are natural sources of air pollution.  
a) Volcanic eruption    b) Solar flare    c) Earthquake    d) All of these
24. Noise pollution can be minimized by  
a) Urbanization    b) Maintaining silence  
c) Reducing noise at source    d) None of these
25. Sound beyond which of the following level can be regarded as a pollutant.  
a) 40 dB    b) 80 dB    c) 120 dB    d) 150 dB
26. "Minamata Disease" is caused due to  
a) Lead    b) Arsenic    c) Mercury    d) Cadmium
27. Which of the following is not a green house gas?  
a) Hydrochlorofluoro carbons    b) Methane  
c) CO<sub>2</sub>    d) SO<sub>2</sub>
28. Primary cause of acid rain around the world is due to  
a) Carbon – di - oxide    b) Sulphur – di – oxide  
c) Carbon Monoxide    d) Ozone
29. Which of the following solid wastes describes the term "Municipal Solid Wastes"?  
a) Toxic    b) Hazardous    c) Non – toxic    d) Non - hazardous
30. Which of the following gas is produced from landfill wastes?  
a) Biogas    b) Natural gas  
c) Liquefied petroleum gas    d) All of these
31. Acid rain can be controlled by  
a) Reducing SO<sub>2</sub> & NO<sub>2</sub> emissions    b) Reducing oxygen emissions  
c) Increasing number of lakes    d) Increasing the forest cover
32. World ozone day is being celebrated on  
a) September 5<sup>th</sup>    b) October 15<sup>th</sup>    c) September 16<sup>th</sup>    d) September 11<sup>th</sup>
33. Which of the following is not a solution for global warming?  
a) Reducing fossil fuel consumption    b) Deforestation  
c) Planting more trees    d) None of these
34. The major cause of global population growth in the 18 & 19 centuries was  
a) Decreases in death rates    b) Decreases in birth rates  
c) Industrial revolution    d) None of these
35. Population explosion will cause  
a) Biodiversity    b) Stress on ecosystem  
c) More employment    d) None of these
36. What is the primary purpose of water conservation?  
a) To increase water usage    b) To decrease water usage  
c) To promote water pollution    d) To prevent water borne illness

37. Which of the following is a potential consequence of groundwater depletion?  
 a) Increased groundwater quality  
 b) Increased water availability for Industrial use  
 c) Land subsidence  
 d) Increased soil fertility
38. The fluoride concentration for prevention of dental caries is  
 a) 1 mg/l  
 b) 2 mg/l  
 c) 3 mg/l  
 d) 4 mg/l
39. Where does random come from?  
 a) Rocks  
 b) Soil  
 c) Water  
 d) All of these
40. The most common target organ of toxicity is  
 a) Heart  
 b) Lung  
 c) CNS (brain & Spinal cord)  
 d) Skin
41. Remote sensing uses which of the following waves in its procedure.  
 a) Electric field  
 b) Sonar waves  
 c) Gamma – rays  
 d) Electro – magnetic waves
42. In which type of remote sensing, the sun is primary source of energy.  
 a) Active  
 b) Passive  
 c) Both (a) & (b)  
 d) None of these
43. GIS stands for \_\_\_\_\_  
 a) Geographic Information System  
 b) Geographic Internal System  
 c) Global Information System  
 d) None of these
44. GIS tools allow the user to perform which of the following tasks.  
 a) Create searches  
 b) Store data  
 c) Edit data  
 d) All of these
45. EIA was introduced in India in \_\_\_\_\_  
 a) 1978  
 b) 1976  
 c) 1879  
 d) 1789
46. EIA stands for  
 a) Environmental Impact Analyzer  
 b) Environmental Impact Assessment  
 c) Environmental Impact Analytic  
 d) Environmental Impact Act
47. ISO 14000 standards are for the \_\_\_\_\_  
 a) Quality Management system  
 b) Environmental Management system  
 c) Administration  
 d) Supply chain
48. EIA is done  
 a) Before the project  
 b) After the project  
 c) During the project  
 d) Any time in life cycle of project
49. Environmental Education is important at  
 a) Primary school stage only  
 b) Secondary school stage only  
 c) College stage only  
 d) Throughout life
50. Sustainable building means that  
 a) Green building  
 b) Environmental building  
 c) Both (a) & (b)  
 d) None of these

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