



USN

Question Paper Version : A

Fifth Semester B.E./B.Tech. Degree Examination, June/July 2025
Environmental Studies and E - Waste Management

[Max. Marks: 50]

INSTRUCTIONS TO THE CANDIDATES

- Answer all the **fifty** questions, each question carries one mark.
 - Use only **Black ball point pen** for writing / darkening the circles.
 - For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.
 - Darkening two circles for the same question makes the answer invalid.
 - Damaging/overwriting, using whiteners on the OMR sheets are strictly prohibited.
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- In an ecosystem biological cycling of materials is maintained by
a) Producer b) Consumer c) Decomposer d) All of these
 - The primary producers in a forest ecosystem are
a) Chlorophyll containing trees and plants b) Herbivores
c) Carnivores d) Bacteria and other micro - organisms
 - Which of the following is the terrestrial ecosystem?
a) Forest b) Grass land c) Desert d) All of these
 - Food web consists of
a) a portion of food chain b) an organism position in a food chain
c) interlocking food chain d) a set of similar consumers
 - The area of National Parks range between
a) 0.61 to 7818 kms b) 0.04 to 3162 kms c) 0.14 to 3612 kms d) 0.16 to 8718 kms
 - Which Indian state has its maximum area under the forest cover?
a) Maharashtra b) Madhya Pradesh c) Arunachal Pradesh d) Karnataka
 - How many parts are there in forest ecosystem?
a) Biotic type b) Abiotic type c) Both (a) & (b) d) None of these
 - To which of the following is Ramsar convention related?
a) Protection of wild life b) Protection of environment
c) Protection of rivers d) Protection of wetlands

- Which of the following option is not included in the sustainable development parameters?
a) Gender inequality
b) Intergenerational and intragenerational equity
c) Growing annually d) None of these
- How many sustainable development goals are there?
a) 10 b) 12 c) 13 d) 17
- Which of the following are biodegradable pollutants?
a) Plastics b) Domestic sewage c) Detergent d) All of these
- BOD means
a) Biochemical Oxygen Demand b) Chemical Oxygen Demand
c) Biophysical oxygen Demand d) All of these
- 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
- Which of the following is a point source of water pollution?
a) Factories b) Sewage treatment plants
c) Urban & Sub - urban lands d) Both (a) & (b)
- Pesticide causes
a) Eye irritation b) Skin irritation c) Respiratory ailment d) All of these
- Amount of waste infectious produced in hospitals.
a) 45 % b) 65 % c) 80 % d) 100 %
- Cytotoxic and expired drugs are disposed of by
a) Dumping b) Autoclave c) Incineration d) All of these
- Color code of plastic bag for disposing of microbial laboratory culture waste ____
a) Black b) Red c) Blue d) White
- All of the waste are incinerated except.
a) Reactive chemical waste b) Vaccine
c) Mutilated parts d) Discarded drugs
- The average composition of municipal solid waste is
a) 41 % organic , 40 % inert & 19 % recyclable.
b) 20 % organic , 60% inert & 20 % recyclable
c) 30 % organic , 20% inert & 50 % recyclable
d) 19 % organic , 41% inert & 40 % recyclable
- Major atmospheric gas layer in stratosphere is
a) Hydrogen b) Carbon dioxide c) Ozone d) Helium
- World Environment day is on ____
a) 5th May b) 5th June c) 3rd Jan d) 1st June

23. Which of the following is not a green house gas?
 a) Hydro chlorofluorocarbons b) Methane
 c) CO₂ d) SO₂
24. Global warming could affect
 a) Climate b) Increase in sea level
 c) Melting of glaciers d) All of these
25. Primary cause of acid rain around the world is due to
 a) Carbon dioxide b) Sulphur dioxide c) Carbon monoxide d) Ozone
26. What is the main reason for the depletion of groundwater levels?
 a) Rains are less frequent
 b) Tree cover has reduced
 c) Tube wells and hand pumps are used for irrigation
 d) The course of river being changed and dams built
27. What happens when water contains 8 – 20 PPM of fluoride concentration?
 a) Blue baby disease b) Crippling fluorosis
 c) Dental fluorosis d) Mottling of teeth
28. Coral reefs of India are located in
 a) Goa b) Himalayan region
 c) Andaman & Nicobar Islands d) Uttar Pradesh
29. What is the allowable concentration of fluorides in drinking water?
 a) 1.0 mg/L b) 1.25 mg/L c) 1.5 mg/L d) 1.75 mg/L
30. Minmata disease is caused by
 a) Lead b) Mercury c) Cadmium d) Arsenic
31. When did National Disaster Management Authority form?
 a) 2000 b) 2005 c) 2010 d) 2015
32. Scientific study of earthquake is called
 a) Seismograph b) Seismology c) Both (a) & (b) d) None of these
33. Mass killing diseases can be referred as
 a) Biological disaster b) Industrial disaster
 c) War disaster d) Flood disaster
34. South Africa is leading exporter of which mineral?
 a) Copper b) Diamond c) Silver d) Gold
35. Which one of the following is an exhaustible resource?
 a) Coal b) Rain precipitation c) Air d) Tidal energy
36. Which of the following is a non – renewable resource?
 a) Solar energy b) Wind energy c) Fossil fuels d) Hydro power

37. Which of the following is an example of sustainable use of water resources?
 a) Overuse of ground water b) Building dams on rivers
 c) Rainwater harvesting d) Dumping industrial waste in rivers
38. Geothermal energy is a
 a) Heat energy b) Current energy c) Wind energy d) Solar energy
39. Molasses from sugar industry is used to generate
 a) Biodiesel b) Hydrogen c) Bio-ethanol d) Bio - methanol
40. Nuclear power plant in Karnataka is located at
 a) Bhadravati b) Sandur c) Raichur d) Kaiga
41. Wild Life Protection Act in India was passed in
 a) 1978 b) 1972 c) 1986 d) 1992
42. Environment Protection Act was enacted in year
 a) 1986 b) 1974 c) 1992 d) 1984
43. Water Protection Act was enacted in
 a) 1974 b) 1990 c) 1985 d) 2021
44. Blue baby syndrome is caused by the contamination of water due to
 a) Phosphates b) Sulphur c) Arsenic d) Nitrates
45. Which toxic compound is not found in e – waste?
 a) Mercury b) Cadmium c) Neon d) Lead
46. What are the health hazards caused by E – waste?
 a) Lung cancer b) DNA damage c) Brain d) All of these
47. The Kyoto protocol was adopted at the
 a) 3rd conference of UNFCCC in 1977
 b) Convention on the trans boundary effects of industrial accidents
 c) UNFCCC in 1992
 d) Convention on Biological diversity
48. The primary cause of acid rain around the world is due to
 a) Carbon dioxide b) Sulphur dioxide c) Carbon monoxide d) Ozone
49. The carbon “credit is permit” representing the right to emit.
 a) One tonne of CO₂ b) 10 tonnes of CO₂
 c) 5 tonnes of CO₂ d) 15 tonnes of CO₂
50. Fossil fuels are converted into energy by
 a) Burning b) Cooling c) Sublimation d) Melting
