

[illegible]

Question Paper Version : C

## 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.**

- |     |  |                                   |                                      |                                    |                                       |
|-----|--|-----------------------------------|--------------------------------------|------------------------------------|---------------------------------------|
| 1.  | In the world's population, India accounts for            | a) 10%                            | b) 5%                                | c) 25%                             | d) 16%                                |
| 2.  | World Environmental Day is celebrated on                 | a) 5 <sup>th</sup> June           | b) 11 <sup>th</sup> June             | c) 12 <sup>th</sup> January        | d) 8 <sup>th</sup> September          |
| 3.  | Excess fluorides in drinking water is likely to cause    | a) blue babies                    | b) fluosis                           | c) taste and odour                 | d) intestinal irritation              |
| 4.  | The leader of Chipko movement is                         | a) Sunderlal Bahuguna             | b) Medha Patkar                      | c) Vandana Shiva                   | d) Suresh Heblikar                    |
| 5.  | E.I.A. can be expanded as                                | a) Environment and Industrial Act | b) Environment and Impact Activities | c) Environment Impact Assessment   | d) Environmentally Important Activity |
| 6.  | Which of the following is not a biodegradable pollutant? | a) Plastic                        | b) Skins of vegetables and fruits    | c) Dry leaves                      | d) Paper                              |
| 7.  | Minamata disease is caused by                            | a) cadmium                        | b) strontium                         | c) mercury                         | d) uranium                            |
| 8.  | BOD stands for   | a) Biochemical Oxygen Demand      | b) Biological Oxygen Demand          | c) Biogeochemical Oxygen Demand    | d) None of these                      |
| 9.  | Greenhouse effect is caused by excess of                 | a) CO <sub>2</sub>                | b) H <sub>2</sub>                    | c) He                              | d) O <sub>2</sub>                     |
| 10. | Photochemical smog is caused by                          | a) PAN + O <sub>2</sub>           | b) PAN + O <sub>3</sub>              | c) O <sub>3</sub> + O <sub>2</sub> | d) PAN + CO <sub>2</sub>              |
| 11. | Energy flow in any ecosystem is always                   | a) bidirectional                  | b) unidirectional                    | c) multidirectional                | d) none of these                      |
| 12. | Sundarbans is the name of place in                       | a) Assam                          | b) West Bengal                       | c) Karnataka                       | d) All of these                       |
| 13. | Mangrove forests are seen in                             | a) Mumbai                         | b) Nicobar Islands                   | c) West Bengal                     | d) All of these                       |
| 14. | Rearing fish is called                                   | a) pisciculture                   | b) sericulture                       | c) fishiculture                    | d) horticulture                       |
| 15. | Western Ghats are not located in                         | a) North-East India               | b) Maharastra                        | c) Peninsular India                | d) Gujarat                            |
| 16. | Medha Patkar is famous for                               | a) Chipko Movement                | b) Narmada Bachao Andolan            | c) Green Revolution                | d) Silent Valley Project              |
| 17. | Examples of renewable resources are                      | a) wind energy                    | b) solar energy                      | c) tidal energy                    | d) all of these                       |
| 18. | Biogas is made up mostly of                              | a) hydrogen                       | b) carbon dioxide                    | c) ethane                          | d) methane                            |
| 19. | Pyramid of numbers in a pond ecosystem is always         | a) inverted                       | b) erect                             | c) irregular                       | d) none of these                      |
| 20. | Cycling of materials in the biosphere is called          | a) biochemical cycle              | b) biophysical cycle                 | c) biogeochemical cycle            | d) geochemical cycle                  |

22. Salim Ali was an expert in
  - a) agricultural sciences
  - b) rainwater harvesting
  - c) ornithology
  - d) environmental law
23. Which of the following diseases is not spread by water?
  - a) diarrhea
  - b) chickenpox
  - c) cholera
  - d) dysentery
24. D.D.T. is a
  - a) fungicide
  - b) pesticide
  - c) fertilizer
  - d) disinfectant
25. Which of the following waste material is degradable?
  - a) plastic
  - b) metal
  - c) glass
  - d) paper
26. Environmental Education is targeted to
  - a) general public
  - b) professional social groups
  - c) technicians and scientists
  - d) all of these
27. Bhopal gas tragedy caused due to leakage of
  - a) Methyl Iso Cyanate (MIC)
  - b) Sulphur dioxide
  - c) Mustard gas
  - d) Methane
28. Which state is having highest women literacy rate in India?
  - a) Karnataka
  - b) Punjab
  - c) Rajasthan
  - d) Kerala
29. The virus that causes AIDS is
  - a) HIV
  - b) TMV
  - c) HMV
  - d) none of these
30. Kala-azar is spread by
  - a) tape worms
  - b) rats
  - c) mosquitoes
  - d) sand flies
31. Which of the following is not a greenhouse gas?
  - a)  $\text{CO}_2$
  - b)  $\text{CH}_4$
  - c) CFC
  - d)  $\text{H}_2$
32. Ionizing radiations of ecological importance are
  - a)  $\alpha$  - rays
  - b)  $\beta$  - rays
  - c)  $\gamma$  - rays
  - d) all of these
33. The proportion of methane in biogas is
  - a) 20 to 30%
  - b) 10 to 30%
  - c) 60 to 70%
  - d) 80 to 90%
34. Which is not a natural disaster?
  - a) Cyclone
  - b) Nuclear explosion
  - c) Earthquake
  - d) Volcano
35. Landslides are caused by
  - a) earthquakes
  - b) dam building
  - c) mining
  - d) all of these
36. Radiation is a health hazard because it leads to
  - a) typhoid
  - b) cancer
  - c) colour blindness
  - d) pneumonia
37. Which of these gases causes air pollution?
  - a) Nitrogen
  - b) Hydrogen
  - c) Water vapour
  - d) Carbon monoxide
38. Kitchen Wastes contain
  - a) non-biodegradable pollutants
  - b) biodegradable pollutants
  - c) radioactive pollutants
  - d) none of these
39. Water pollution is caused by
  - a) sewage
  - b) industrial effluents
  - c) discharge from farms
  - d) all of these
40. D.D.T. pollutes
  - a) air
  - b) water
  - c) soil
  - d) all of these
41. Pyramid of energy is always
  - a) inverted
  - b) erect
  - c) rectangular
  - d) none of these
42. Herbivores are
  - a) primary producers
  - b) consumers
  - c) decomposers
  - d) all of these
43. The sequence of organisms in a food chain is
  - a) consumer  $\rightarrow$  producer  $\rightarrow$  decomposer
  - b) decomposer  $\rightarrow$  consumer  $\rightarrow$  producer
  - c) producer  $\rightarrow$  decomposer  $\rightarrow$  consumer
  - d) producer  $\rightarrow$  consumer  $\rightarrow$  decomposer
44. Which of the following is a top carnivore?
  - a) Tiger
  - b) Crocodile
  - c) Hawk
  - d) All of these
45. One method of Nitrogen fixation in nature is by
  - a) thunder
  - b) rain
  - c) lightning
  - d) storm
46. Coal is a
  - a) renewable source of energy
  - b) inexhaustible source of energy
  - c) non-renewable source of energy
  - d) none of these
47. Which of the following is a non-polluting source of energy?
  - a) Coal
  - b) Petroleum
  - c) Natural gas
  - d) Solar energy
48. Deforestation is majorly caused by
  - a) mining
  - b) overgrazing
  - c) dam building
  - d) all of these
49. Major dams may cause
  - a) earthquakes
  - b) hurricanes
  - c) storms
  - d) cyclones
50. Maximum usage of water is in the field of