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. The word ‘Environment’ is derived from
   a) English  b) French  c) Latin  d) Spanish

2. The sequence of eating and being eaten in an ecosystem is called
   a) Food chain  b) Carbon cycle  c) Hydrological cycle  d) Anthroposystem

3. Which pyramid is always upright?
   a) Number  b) Biomass  c) Energy  d) None of these

4. The major atmospheric gas layer in stratosphere is
   a) Hydrogen  b) Helium  c) Carbon dioxide  d) Ozone

5. Which atmospheric sphere is closest to the earth surface?
   a) Troposphere  b) Mesosphere  c) Stratosphere  d) Exosphere

6. 22nd April of every year is celebrated as
   a) Environmental day  b) United National day  
      c) Earth day  d) World AIDS day.

7. Plants use ____ gas for photosynthesis.
   a) Oxygen  b) Carbon dioxide  c) Nitrogen  d) Methane

8. The thickness of the earth’s crust is
   a) Between 5 to 70km  b) 200 km  c) 500 km  d) 1000 km
9. EIA can be expanded as
   a) Environmental Important Activity  b) Eco – Industrial Act
   c) Environmental Impact Assessment  d) Environmental Industrial Impact

10. In an aquatic ecosystem phytoplankton can be considered as a
    a) Consumer  b) Producer  c) Macro consumer  d) None of these

11. What is the maximum allowable concentration of fluorides in drinking water?
    a) 1.0 mg/l  b) 1.25 mg/l  c) 1.50mg/l  d) 1.75mg/l

12. Cholera and Typhoid are caused by
    a) Worms  b) Virus  c) Bacteria  d) Fungus

13. Conversion of ammonium to NO₃ by chemical oxidation is termed as
    a) Nitrification  b) Leaching  c) Reduction  d) Mineralization

14. The liquid waste generated from baths and kitchens is called as
    a) Sullage  b) Domestic sewage  c) Run off  d) Storm waste

15. Minamata episode of Japan is due to the poisoning of
    a) Cadmium  b) Strontium  c) Lead  d) Mercury

16. The energy obtained from flowing water is
    a) Tidal energy  b) Hydropower energy  c) Thermal energy  d) None of these

17. Identify the nonrenewable source of energy from the following :
    a) Wind power  b) Hydropower  c) Solar power  d) Coal

18. What is the permissible range of pH for drinking water as per the Indian standards?
    a) 6 to 9  b) 6.5 to 7.5  c) 6.5 to 8.5  d) 6 to 8.5

19. The average life expectancy around the world is currently
    a) Increasing  b) Decreasing  c) Stabilizing  d) Not changing

20. Who is the author of the book ‘Silent Spring’?
    a) Robin cook  b) Arthur Hailey  c) Rachel Carson  d) Darwin

21. Noise is measured in ________
    a) Decibels  b) Joules  c) PPM  d) NTU

22. Which of the following is air pollutant?
    a) O₂  b) CO  c) N₂  d) All of these

23. In our country the percentage of land under forest is about
    a) 15%  b) 25%  c) 35%  d) 19%

24. Sound beyond which of the following level can be regarded as pollutant?
    a) 40dB  b) 80dB  c) 120 dB  d) 150dB
25. BOD means  
   a) Biochemical Oxygen Demand  
   b) Biophysical Oxygen Demand  
   c) Biological Oxygen Demand  
   d) All of these  

26. As per the census of 2011, the India’s literacy rate is  
   a) 82.14%  
   b) 65.46%  
   c) 74.04%  
   d) 54.16%  

27. Which of the following age structure pyramid indicates stable population?  
   a) Pyramid shaped  
   b) Bell shaped  
   c) An urn shaped  
   d) None of these  

28. Methyl Isocyanate gas tragedy took place in the year  
   a) 1984  
   b) 1976  
   c) 1992  
   d) 1989  

29. Which green house gas is known as colourless, sweetish odour and laughing gas?  
   a) Methane  
   b) CFC  
   c) Carbon dioxide  
   d) Nitrous oxide  

30. Ozone layer absorbs  
   a) Cosmic rays  
   b) UV rays  
   c) Infrared rays  
   d) None of these  

31. PVC stands for  
   a) Poly Vinyl Carbon  
   b) Poly Vinyl Chloride  
   c) Poly Vanadium Chloride  
   d) None of these  

32. The pH value of the acid rain water is  
   a) less than 2.7  
   b) less than 5.7  
   c) less than 3.7  
   d) less than 1.7  

33. Each chlorine free radical can destroy the following number of ozone molecules  
   a) 1,00,000  
   b) 10,000  
   c) 100  
   d) 1000  

34. Which of the following statement is true?  
   a) Acid rain causes stone cancer  
   b) Acid rain reduces soil fertility  
   c) Acid rain results in acidification of water bodies.  
   d) All of these  

35. Major compound responsible for the destruction of stratospheric ozone layer is  
   a) Oxygen  
   b) CFC  
   c) Carbon dioxide  
   d) Methane  

36. Formation of ozone layer is explained by _______ reaction.  
   a) Chapman’s reaction  
   b) Henderson’s reaction  
   c) Rosemund’s reaction  
   d) Perkin’s reaction  

37. The Environmental Protection Act 1986 deals with  
   a) Water  
   b) Air  
   c) Soil  
   d) All of these  

38. The first united national conference on human environment was held in the year 1972 at  
   a) Kyoto  
   b) Vienna  
   c) Stockholm  
   d) London  

39. GIS can be expanded as  
   a) Geological Information System  
   b) Geodynamic Intimation System  
   c) Geographic Information System  
   d) Geographic Internet System
40. The Forest Conservation Act was enacted in the year ______
   a) 1986          b) 1974          c) 1980          d) 1972

41. The wild life protection Act was enacted in the year ______
   a) 1972          b) 1994          c) 1986          d) 2000

42. The leader of Chipko movement is
   a) Vandana Shiva  b) Suresh Heblikar
   c) Medha Patkar   d) Sunderlal Bahuguna

43. Which state is having highest women literacy rate in India?
   a) Karnataka      b) Kerala      c) Punjab      d) Rajasthan

44. Amount of oxygen present in atmospheric air is
   a) 0.03%         b) 21%          c) 36%          d) 0.9%

45. Which of the following conceptual spheres of the environment is having least storage capacity of matter?
   a) Atmosphere    b) Lithosphere  c) Biosphere  d) Hydrosphere

46. Excess nitrates in drinking water is likely to cause
   a) Fluorosis     b) Minamata     c) Blue babyos  d) None of these

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

48. Which of the following is considered as an alternate fuel?
   a) Coal          b) CNG         c) Kerosene   d) Petrol

49. Nitrogen fixing bacteria exists in ______ of plants
   a) Leaf          b) Stem        c) Flower     d) Roots

50. Domesticated animals are used for
   a) Dairy products b) Production of fiber
   c) Production of meat d) All of these
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