



- 27 Which of the following is commonly used to disinfect water and make it safe for drinking?  
(a) Chlorine (b) Mercury (c) Sulfur (d) Nitrogen
- 28 Eutrophication in water bodies is caused mainly by excessive amounts of:  
(a) Salt (b) Oxygen (c) Nutrients (like nitrogen and phosphorus) (d) Metals
- 29 Which of the following diseases is caused by drinking water contaminated with *Vibrio cholerae*?  
(a) Typhoid (b) Cholera (c) Malaria (d) Dengue
- 30 Giardiasis is a waterborne disease caused by a:  
(a) Virus (b) Bacterium (c) Protozoan (d) Fungus
- 31 Hepatitis A is primarily transmitted through:  
(a) Direct skin contact (b) Inhalation of aerosols (c) Consumption of contaminated food or water (d) Animal bites
- 32 Dengue fever is primarily spread by which type of mosquito?  
(a) Anopheles (b) Aedes (c) Culex (d) Blackfly
- 33 Schistosomiasis, also known as bilharzia, is a water-induced disease caused by:  
(a) Bacteria (b) Protozoa (c) Viruses (d) Parasitic worms (flukes)
- 34 Excessive fluoride in drinking water mainly causes which health condition?  
(a) Dental fluorosis (b) Malaria (c) Tuberculosis (d) Typhoid
- 35 Which of the following fluoride concentrations in drinking water is generally considered safe by the World Health Organization (WHO)?  
(a) 0.5 mg/L (b) 1.5 mg/L (c) 3.5 mg/L (d) 5.0 mg/L
- 36 Which of the following is considered a conventional source of energy?  
(a) Solar power (b) Wind energy (c) Natural gas (d) Tidal energy
- 37 Which of the following processes is commonly used to produce hydrogen from natural gas?  
(a) Electrolysis (b) Photosynthesis (c) Steam methane reforming (d) Fermentation
- 38 Which component in a wind turbine is responsible for converting the rotational energy of the blades into electrical energy?  
(a) Blades (b) Gearbox (c) Generator (d) Nacelle
- 39 Which of the following non-conventional energy sources is derived from organic matter such as agricultural waste and animal manure?  
(a) Geothermal energy (b) Biomass energy (c) Hydropower (d) Wind energy
- 40 Solar panels are typically made of which material to absorb sunlight efficiently?  
(a) Copper (b) Silicon (c) Aluminum (d) Zinc
- 41 Which of the following is a major source of water pollution?  
(a) Burning fossil fuels (b) Industrial waste discharge (c) Solar power generation (d) Wind energy farms
- 42 What is the effect of oil spills on marine ecosystems?  
(a) Increase in oxygen levels in water (b) Enhanced photosynthesis in algae (c) Decreased sunlight penetration and harm to marine life (d) Increased fish populations.
- 43 Which type of water pollution results in the rapid spread of diseases like cholera and dysentery?  
(a) Thermal pollution (b) Pathogenic microbial pollution (c) Chemical pollution (d) Nutrient pollution
- 44 What is one of the most effective preventive measures to reduce water pollution from agricultural runoff?  
(a) Increased use of fertilizers (b) Implementation of buffer zones with vegetation (c) Deforestation of riparian areas (d) Overgrazing of livestock
- 45 Which type of pollution occurs when heat discharged into water bodies raises the temperature, harming aquatic life?  
(a) Chemical pollution (b) Radioactive pollution (c) Thermal pollution (d) Noise pollution
- 46 What is the most effective way to prevent waterborne diseases in communities?  
(a) Boiling water before drinking (b) Treating wastewater before discharge (c) Regular testing of water quality (d) All of the above
- 47 Which indicator organism is commonly used to assess the microbiological quality of drinking water?  
(a) *E. coli* (b) *Salmonella* (c) *Vibrio cholerae* (d) *Giardia*
- 48 Which of the following populations is most vulnerable to waterborne diseases?  
(a) Urban residents (b) Children under five years old (c) Adults aged 30-50 (d) Seniors over 65
- 49 Which of the following diseases can be caused by drinking contaminated water?  
(a) Diabetes (b) Cholera (c) Asthma (d) Heart disease
- 50 What is a common consequence of water pollution on aquatic ecosystems?  
(a) Increased biodiversity (b) Death of aquatic life due to hypoxia (c) Improved water quality (d) Enhanced photosynthesis

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Course instructor

CCI

HOD

### EVS Solution for IAT-1

1	A, C	26	B
2	A	27	A
3	B	28	C
4	C	29	B
5	A	30	C
6	D	31	C
7	C	32	B
8	C	33	D
9	B	34	A
10	C	35	B
11	C	36	C
12	A	37	C
13	D	38	C
14	C	39	B
15	C	40	B
16	B	41	B
17	A	42	C
18	B	43	B
19	B	44	B
20	B	45	C
21	A	46	D
22	D	47	A
23	D	48	B
24	A	49	B
25	B	50	B