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Internal Assessment Test 1 – September 2025

Sub	ENVIRONMENTAL STUDIES & E-WASTE MANAGEMENT					Sub Code	BCS508	Branch	CSE, AIML, AIDS & ISE
Date	29.09.2025	Duration:	90 mins	Max Marks:	50	Sem	V		

Answer all the questions (Each carry 1 mark)

- 1 A predator is
(a) An animal that is fed upon another animal (b) Animal that feeds upon both plants and animals (c) An animal that feeds upon another animal (d) A primary consumer
- 2 Which of the following is an example of a renewable water resource?
(a) Deep groundwater (b) Glacial melt (c) Fossil aquifers (d) Surface runoff
- 3 What is the characteristic of each type of ecosystem?
(a) Interaction between living things (b) Interaction between biotic and abiotic factors (c) Interaction between abiotic factors (d) Fights among individuals
- 4 Which of the following is an abiotic component of a pond?
(a) Bacteria (b) Fungi (c) Water (d) Fishes
- 5 Excessive fluoride in drinking water mainly causes which health condition?
(a) Dental fluorosis (b) Malaria (c) Tuberculosis (d) Typhoid
- 6 Who consumes the autotrophic components?
(a) Trees (b) Plant (c) Phytoplankton (d) Heterotrophs
- 7 What will happen if we remove the decomposers from an ecosystem?
(a) Energy flow stops (b) Consumers die (c) Mineralization will not occur (d) Plants won't receive solar energy
- 8 Which type of soil we can find on the surface of Thar desert?
(a) Rocky (b) Moist (c) Aeolian (d) Fertile
- 9 Which type of trees is typically found in a temperate forest ecosystem?
(a) Cacti (b) Pine trees (c) Mangrove trees (d) Palm trees
- 10 Which of the following statements is true about a forest ecosystem?
(a) All animals are producers (b) Forests do not contribute to oxygen production (c) Forests help in the carbon cycle (d) The forest ecosystem is not affected by human activities
- 11 Which desert is the largest hot desert in the world?
(a) Kalahari (b) Atacama (c) Sahara (d) Gobi
- 12 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
- 13 Which of the following abiotic factors is most important in determining the type of wetland?
(a) Soil type (b) Temperature (c) Water depth (d) All of the above
- 14 A riverine ecosystem refers to the ecosystems associated with:
(a) Deserts (b) Lakes (c) Rivers and streams (d) Oceans
- 15 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
- 16 Which SDG is dedicated to affordable and clean energy?
(a) SDG 4 (b) SDG 7 (c) SDG 11 (d) SDG 13
- 17 What is the focus of SDG 10?
(a) Reducing inequalities within and among countries (b) Promoting responsible consumption and production (c) Conserving marine life (d) Increasing economic growth
- 18 Which SDG promotes responsible consumption and production patterns?
(a) SDG 8 (b) SDG 12 (c) SDG 13 (d) SDG 15
- 19 Sustainable development means
(a) Meeting present needs without compromising on future needs (b) progress of human beings (c) balance between human needs and the ability of earth to provide the resources (d) all of these.
- 20 Which SDG includes the target to “achieve gender equality and empower all women and girls”?
(a) SDG 3 (b) SDG 5 (c) SDG 8 (d) SDG 12
- 21 Which indicator organism is commonly used to assess the microbiological quality of drinking water?
(a) E. coli (b) Salmonella (c) Vibrio cholera (d) Giardia
- 22 Which of these is not a major cause of water scarcity?
(a) Overpopulation (b) Industrial pollution (c) Deforestation (d) Agricultural irrigation
- 23 What are the two basic categories of an ecosystem?
(a) Aquatic and terrestrial (b) Aquatic and forest (c) Ponds and lakes (d) Rivers and forests
- 24 What is the main cause of groundwater depletion?
(a) Excessive use in agriculture (b) Industrial pollution (c) Low rainfall (d) Melting of glaciers
- 25 Which of the following parameters is commonly used to measure the acidity of water?

- (a) Dissolved Oxygen (DO) (b) pH level (c) Turbidity (d) Biological Oxygen Demand (BOD)
- 26 Which heavy metal is known to be highly toxic and a common pollutant in water bodies near mining areas?
(a) Sodium (b) Lead (c) Calcium (d) Magnesium
- 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 can be caused by drinking contaminated water?
(a) Diabetes (b) Cholera (c) Asthma (d) Heart disease
- 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 The phytoplankton, zooplankton, and fungi are components of which ecosystem?
(a) Pond (b) Land (c) Desert (d) Terrestrial
- 35 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
- 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 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.
- 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 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

- 42 Which of the following processes is commonly used to produce hydrogen from natural gas?
(a) Electrolysis (b) Photosynthesis (c) Steam methane reforming (d) Fermentation
- 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 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
- 45 Which of the following is the largest ecosystem on Earth?
(a) Forest (b) Desert (c) Ocean (d) Wetlands
- 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 What percentage of the Earth's water is fresh water?
(a) 3% (b) 10% (c) 20% (d) 50%
- 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 is caused by drinking water contaminated with *Vibrio cholerae*?
(a) Typhoid (b) Cholera (c) Malaria (d) Dengue
- 50 Which of the following type of forest is important for watersheds?
(a) Tropical evergreen forests (b) Tropical deciduous forests (c) Tropical Montane forests (d) Grassland forests

T. Rakulley

Course instructor

CCI

HOD

EVS Solution for IAT-1

1	C	26	B
2	D	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	B	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	D	44	B
20	B	45	C
21	A	46	D
22	D	47	A
23	A	48	B
24	A	49	B
25	B	50	C