

Answer Key with MCQs – Environmental Studies and E-Waste Management (BCS508)

Internal Assessment Test – Set 1

1. What is the main energy source for producers?

- a) Sunlight ✓
- b) Water
- c) Soil
- d) Wind

Answer: a) Sunlight

2. Which mosquito-borne disease is associated with stagnant water?

- a) Cholera
- b) Dengue ✓
- c) Hepatitis A
- d) Giardiasis

Answer: b) Dengue

3. What is the cleanest fuel among the following?

- a) Hydrogen ✓
- b) Coal
- c) Oil
- d) Gasoline

Answer: a) Hydrogen

4. Which energy source is exhaustible?

- a) Wind
- b) Solar
- c) Coal ✓
- d) Tidal

Answer: c) Coal

5. What is the role of decomposers in an ecosystem?

- a) Consume producer
- b) Recycle nutrients ✓
- c) Absorb sunlight
- d) Store energy

Answer: b) Recycle nutrients

6. Which organisms fix atmospheric nitrogen?

- a) Fungi
- b) Bacteria ✓
- c) Algae
- d) Insects

Answer: b) Bacteria

7. Which ecosystem has the highest biodiversity?

- a) Desert
- b) Wetland
- c) Tropical Rainforest ✓
- d) Taiga

Answer: c) Tropical Rainforest

8. Which ecosystem has camels as adapted animals?

- a) Forest
- b) Desert ✓
- c) Wetland
- d) Ocean

Answer: b) Desert

9. Which cycle is responsible for movement of nitrogen?

- a) Water Cycle
- b) Nitrogen Cycle ✓
- c) Carbon Cycle
- d) Phosphorus Cycle

Answer: b) Nitrogen Cycle

10. Which hydrogen type is produced using renewable energy?

- a) Gray Hydrogen
- b) Blue Hydrogen
- c) Green Hydrogen ✓
- d) Brown Hydrogen

Answer: c) Green Hydrogen

11. What is a by-product of hydrogen fuel cells?

- a) Carbon dioxide
- b) Water ✓
- c) Methane
- d) Sulphur dioxide

Answer: b) Water

12. Which cycle involves CO₂ absorption?

- a) Carbon Cycle ✓
- b) Water Cycle
- c) Nitrogen Cycle
- d) Sulphur Cycle

Answer: a) Carbon Cycle

13. What is biodiversity conservation important for?

- a) Resilience ✓
- b) Energy loss
- c) Food chain disruption
- d) Soil erosion

Answer: a) Resilience

14. What is a key advantage of wind energy?

- a) Exhaustible
- b) Causes pollution

- c) Low maintenance cost ✓
- d) Generates CO2

Answer: c) Low maintenance cost

15. Which of the following is a non-conventional energy source?

- a) Coal
- b) Natural Gas
- c) Solar ✓
- d) Petrol

Answer: c) Solar

16. Which SDG is about quality education?

- a) SDG 4 ✓
- b) SDG 2
- c) SDG 7
- d) SDG 15

Answer: a) SDG 4

17. Which ecosystem is known as fragile due to slow recovery?

- a) Forest
- b) Desert ✓
- c) Ocean
- d) Wetland

Answer: b) Desert

18. Which SDG focuses on affordable and clean energy?

- a) SDG 7 ✓
- b) SDG 1
- c) SDG 3
- d) SDG 2

Answer: a) SDG 7

19. Which cycle involves phosphorus?

- a) Water cycle
- b) Carbon cycle
- c) Phosphorus cycle ✓
- d) Nitrogen cycle

Answer: c) Phosphorus cycle

20. Which natural disaster can hydropower dams cause?

- a) Earthquake
- b) Flooding ✓
- c) Volcano
- d) Drought

Answer: b) Flooding

21. Which waterborne disease is caused by Salmonella typhi?

- a) Typhoid ✓
- b) Cholera
- c) Hepatitis
- d) Dengue

Answer: a) Typhoid

22. What is a major disadvantage of wind farms?

- a) No fuel cost
- b) Noise pollution ✓
- c) Clean energy
- d) Eco-friendly

Answer: b) Noise pollution

23. Which ecosystem covers 71% of the Earth?

- a) Forest
- b) Desert
- c) Ocean ✓
- d) Wetland

Answer: c) Ocean

24. Which energy form is carried by electromagnetic waves?

- a) Sound
- b) Radiant ✓
- c) Thermal
- d) Nuclear

Answer: b) Radiant

25. Succession in ecosystems leads to?

- a) Decrease in biodiversity
- b) Stable climax community ✓
- c) Soil erosion
- d) Loss of nutrients

Answer: b) Stable climax community

26. What is the top predator in a food chain called?

- a) Primary consumer
- b) Tertiary consumer ✓
- c) Producer
- d) Decomposer

Answer: b) Tertiary consumer

27. Which of the following is a producer in an ecosystem?

- a) Lion
- b) Deer
- c) Grass ✓
- d) Frog

Answer: c) Grass

28. Which is an abiotic factor in an ecosystem?

- a) Plants
- b) Animals
- c) Soil ✓
- d) Fungi

Answer: c) Soil

29. What is the main disadvantage of solar energy?

- a) Expensive installation ✓
- b) High greenhouse gas emission
- c) Not renewable
- d) Causes air pollution

Answer: a) Expensive installation

30. Which interaction benefits both organisms?

- a) Mutualism ✓
- b) Parasitism
- c) Competition
- d) Predation

Answer: a) Mutualism

31. Which vector transmits malaria?

- a) Aedes mosquito
- b) Anopheles mosquito ✓
- c) Culex mosquito
- d) Sandfly

Answer: b) Anopheles mosquito

32. Which type of wind turbine is most common?

- a) Vertical Axis
- b) Horizontal Axis ✓
- c) Spiral Axis
- d) Hybrid Axis

Answer: b) Horizontal Axis

33. Which energy type is nuclear fission related to?

- a) Nuclear Energy ✓
- b) Geothermal

- c) Wind
- d) Solar

Answer: a) Nuclear Energy

34. What type of energy is derived from Earth's internal heat?

- a) Nuclear
- b) Geothermal ✓
- c) Solar
- d) Biomass

Answer: b) Geothermal

35. Which disease is caused by *Vibrio cholerae*?

- a) Typhoid
- b) Cholera ✓
- c) Hepatitis A
- d) Malaria

Answer: b) Cholera

36. Which form of energy is stored in chemical bonds?

- a) Kinetic Energy
- b) Thermal Energy
- c) Chemical Energy ✓
- d) Nuclear Energy

Answer: c) Chemical Energy

37. Which disease is caused by contaminated water with *Giardia*?

- a) Malaria
- b) Giardiasis ✓
- c) Dengue
- d) Fluorosis

Answer: b) Giardiasis

38. Which renewable energy requires turbines in oceans?

- a) Solar
- b) Tidal ✓
- c) Wind
- d) Geothermal

Answer: b) Tidal

39. Which cycle involves evaporation, condensation, and precipitation?

- a) Carbon Cycle
- b) Nitrogen Cycle
- c) Water Cycle ✓
- d) Phosphorus Cycle

Answer: c) Water Cycle

40. Which gas is used in fuel cells?

- a) Hydrogen ✓
- b) Oxygen
- c) Carbon dioxide
- d) Nitrogen

Answer: a) Hydrogen

41. Which SDG is about climate action?

- a) SDG 7
- b) SDG 13 ✓
- c) SDG 5
- d) SDG 2

Answer: b) SDG 13

42. Which pollutant causes fluorosis?

- a) Lead
- b) Mercury
- c) Fluoride ✓
- d) Arsenic

Answer: c) Fluoride

43. Which is an example of commensalism?

- a) Bees and flowers
- b) Ticks and mammals
- c) Birds nesting in trees ✓
- d) Lions hunting deer

Answer: c) Birds nesting in trees

44. Which SDG is related to clean water and sanitation?

- a) SDG 6 ✓
- b) SDG 7
- c) SDG 3
- d) SDG 15

Answer: a) SDG 6

45. Which is an example of biomass energy?

- a) Coal
- b) Natural gas
- c) Wood ✓
- d) Nuclear

Answer: c) Wood

46. Which is the base of the food chain?

- a) Producers ✓
- b) Consumers
- c) Decomposers
- d) Carnivores

Answer: a) Producers

47. Which type of consumer is a herbivore?

- a) Primary ✓
- b) Secondary
- c) Tertiary
- d) Decomposer

Answer: a) Primary

48. Which non-conventional energy uses PV cells?

- a) Wind
- b) Solar ✓
- c) Geothermal
- d) Biomass

Answer: b) Solar

49. Which UN SDG focuses on ending poverty?

- a) Zero Hunger
- b) No Poverty ✓
- c) Decent Work
- d) Climate Action

Answer: b) No Poverty

50. Which relationship benefits one organism and harms the other?

- a) Mutualism
- b) Commensalism
- c) Parasitism ✓
- d) Competition

Answer: c) Parasitism