

1. Question 1: What is the primary focus of biology?

- A) The study of rocks and minerals
- B) The study of life and living organisms
- C) The study of weather patterns
- D) The study of human history

Answer: B

2. Question 2: Which of the following is NOT a characteristic of life?

- A) Requires energy
- B) Reproduces
- C) Can fly
- D) Maintains homeostasis

Answer: C

3. Question 3: What is the term for the process that keeps conditions inside the bodies of organisms stable?

- A) Adaptation
- B) Homeostasis
- C) Metabolism
- D) Evolution

Answer: B

4. Question 4: What type of relationship is mutualism?

- A) One organism benefits while the other is harmed
- B) Both organisms benefit from the relationship
- C) One organism benefits and the other is unaffected
- D) Both organisms are harmed

Answer: B

5. Question 5: In which biome would you find permafrost?

- A) Desert
- B) Tundra
- C) Tropical rainforest
- D) Temperate forest

Answer: B

6. Question 6: What is the primary producer in an ecosystem?

- A) Herbivore
- B) Carnivore
- C) Autotroph
- D) Detritivore

Answer: C

7. Question 7: Which of the following factors is considered abiotic?

- A) Plants
- B) Animals
- C) Temperature
- D) Bacteria

Answer: C

8. Question 8: What is the main role of detritivores in an ecosystem?

- A) To produce energy through photosynthesis
- B) To consume other consumers
- C) To decompose organic materials and recycle nutrients
- D) To compete with primary producers

Answer: C

9. Question 9: What is the term for the maximum number of individuals that an environment can support?

- A) Population density
- B) Carrying capacity
- C) Biotic potential
- D) Limiting factor

Answer: B

10. Question 10: Which of the following is a characteristic of a eutrophic lake?

- A) Low nutrient levels
- B) High oxygen levels
- C) High nutrient levels
- D) Cold temperatures

Answer: C