

Marine Biology Essentials

Marine Biology · Answer Key · 10 Questions

1. Which marine mammal is the largest animal ever known to have lived on Earth?

- A) Sperm whale
- B) Blue whale**
- C) Great white shark
- D) Giant squid

2. Coral reefs are primarily built by the accumulation of which substance secreted by coral polyps?

- A) Calcium carbonate**
- B) Silica
- C) Magnesium oxide
- D) Iron sulfide

3. Which zone of the ocean receives enough sunlight to support photosynthesis?

- A) Abyssal zone
- B) Hadal zone
- C) Photic zone**
- D) Twilight zone

4. What is the primary method sharks use to detect the electrical fields produced by prey?

- A) Echolocation
- B) Ampullae of Lorenzini**
- C) Lateral line system
- D) Chemoreception

5. Which of these organisms is classified as a marine mammal rather than a fish?

- A) Manta ray
- B) Dolphin**
- C) Barracuda
- D) Sea horse

6. What is the main biological process that allows phytoplankton to produce energy in the ocean?

- A) Chemosynthesis
- B) Photosynthesis**
- C) Respiration
- D) Fermentation

7. Sea turtles are reptiles that breathe using which organ?

- A) Gills
- B) Skin
- C) Lungs**
- D) Spiracles

8. What do cephalopods like octopuses use to change their skin color and texture for camouflage?

- A) Chromatophores**
- B) Bioluminescence
- C) Photosensitive cells
- D) Melanin granules

9. Which gas is the most abundant dissolved gas in seawater?

- A) Oxygen
- B) Nitrogen**
- C) Carbon dioxide
- D) Helium

10. What type of relationship exists between clownfish and sea anemones where both species benefit?

- A) Parasitism
- B) Commensalism
- C) Mutualism**
- D) Predation