

# Maritime Technology and Our Oceans

Maritime Technology · Practice Test · 15 Questions

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**1. What maritime technology is specifically designed to study marine life and ocean conditions from beneath the surface?**

- A) Satellite imagery
- B) Sonar systems
- C) Autonomous underwater vehicles (AUVs)
- D) Navigation buoys

**2. Which type of maritime vessel is often equipped with advanced sensors to detect whale songs and other marine mammal vocalizations?**

- A) Container ship
- B) Research vessel
- C) Tugboat
- D) Cruise liner

**3. How do specially designed ship hulls, known as 'eco-designs', aim to reduce environmental impact?**

- A) By increasing fuel consumption
- B) By reducing drag and improving fuel efficiency
- C) By emitting more exhaust fumes
- D) By creating larger wakes

**4. What is a primary environmental concern related to the noise pollution generated by large ships?**

- A) It helps marine animals navigate.
- B) It can interfere with marine mammal communication and behavior.
- C) It purifies the ocean water.
- D) It encourages coral reef growth.

**5. Which technology helps monitor the health of coral reefs by providing detailed underwater imagery?**

- A) GPS trackers
- B) Remote sensing drones
- C) Submersibles and ROVs (Remotely Operated Vehicles)
- D) Anchor systems

**6. What is the main purpose of 'whale deterrent systems' found on some offshore structures or vessels?**

- A) To attract whales for observation
- B) To warn whales of approaching danger or noise
- C) To measure whale blubber thickness
- D) To collect whale samples

**7. How does improved navigation technology, like GPS, contribute to marine conservation?**

- A) By making fishing more efficient for overfishing
- B) By allowing ships to avoid sensitive marine habitats
- C) By increasing the risk of grounding on reefs
- D) By depositing more ballast water

**8. What environmental benefit does the development of cleaner marine engine technologies offer?**

- A) Increased emissions of greenhouse gases
- B) Reduced air and water pollution from ships
- C) Higher levels of sulfur dioxide in the atmosphere
- D) More oil spills

**9. Which maritime technology is used to map the seabed and identify potential breeding grounds for marine species?**

- A) Periscopes
- B) Echo sounders and multibeam sonar
- C) Lifeboats
- D) Crow's nests

**10. What role do 'marine protected area monitoring systems' play in safeguarding marine ecosystems?**

- A) They encourage increased fishing within protected zones.
- B) They help enforce regulations and track human activities to protect marine life.
- C) They are used for recreational boating.
- D) They signal shipping lanes.

**11. How can advanced hull coatings on ships help the environment?**

- A) By attracting invasive species
- B) By reducing the growth of barnacles and algae, which decreases drag and fuel use
- C) By releasing toxins into the water
- D) By creating rougher surfaces

**12. What type of maritime technology is used to study the migration patterns of large marine animals like turtles or sharks?**

- A) Trawling nets
- B) Satellite tagging and tracking devices
- C) Foghorns
- D) Anchors

**13. Which innovation in maritime technology aims to collect plastic waste from the ocean surface?**

- A) Ballast water treatment systems
- B) Ocean cleanup systems and booms
- C) Marine radar
- D) Wreck detection sonar

**14. What is the function of 'environmental monitoring buoys' deployed in the ocean?**

- A) To signal shipwrecks
- B) To collect data on water quality, temperature, and currents for environmental studies
- C) To guide fishing fleets
- D) To serve as lighthouses

**15. How can the design of ports and harbors incorporate maritime technology to benefit the environment?**

- A) By increasing artificial light pollution
- B) By implementing systems to manage stormwater runoff and reduce pollution entering the sea
- C) By allowing more dredging
- D) By creating artificial reefs for shipwrecks