

Maritime Technology Fundamentals

Maritime Technology · Answer Key · 20 Questions

1. Which part of a ship is specifically designed to keep it moving in a straight line through the water?

- A) The keel**
- B) The rudder
- C) The mast
- D) The bowsprit

2. What is the primary function of a ballast tank in a large merchant vessel?

- A) To store fresh drinking water
- B) To improve speed
- C) To adjust stability and trim**
- D) To house the engine

3. Which navigational instrument uses a magnetic needle to show direction?

- A) Sextant
- B) Chronometer
- C) Compass**
- D) Sonar

4. What is the purpose of the 'load line' or Plimsoll line painted on the side of a ship?

- A) To show the ship's name
- B) To indicate the maximum safe depth a ship can be submerged**
- C) To mark the position of the anchor
- D) To measure the wind speed

5. In maritime terms, what is the 'starboard' side of a vessel?

- A) The back
- B) The left side
- C) The right side**
- D) The front

6. Which device allows a ship to determine the depth of the water beneath the hull using sound waves?

- A) Radar
- B) Echo sounder**
- C) Anemometer
- D) Barometer

7. What does a ship's 'hull' primarily provide?

- A) Propulsion power
- B) Navigation data
- C) Buoyancy and structural strength**
- D) Communication signal

8. What is the function of a 'dry dock' in maritime maintenance?

- A) To load cargo containers
- B) To provide a place to build or repair ships above water**
- C) To store fuel for the ship
- D) To clean the ship's interior

9. Which maritime technology is used to determine a ship's position by measuring the angle between a celestial body and the horizon?

- A) GPS
- B) Sextant**
- C) Logbook
- D) Gyroscope

10. What is the main purpose of a shipping container in international trade?

- A) To keep the crew cool
- B) To standardize the size of cargo for easier handling**
- C) To act as a life raft
- D) To protect the ship from pirates

11. What does an 'anemometer' measure on a ship?

- A) Water current speed
- B) Wind speed**
- C) Atmospheric pressure
- D) Fuel consumption

12. Which part of a ship's propulsion system rotates to push water backward, moving the ship forward?

- A) The rudder
- B) The propeller**
- C) The capstan
- D) The crane

13. What is the purpose of an 'AIS' (Automatic Identification System) on modern ships?

- A) To cook food for the crew
- B) To track the ship's location for safety and traffic management**
- C) To measure the salt content of the sea
- D) To keep the ship's logs

14. What do 'fenders' on a dock or ship hull help prevent?

- A) Engine overheating
- B) Collision damage during docking**
- C) The ship from moving too fast
- D) Radio interference

15. Which type of engine is most commonly used in large ocean-going vessels today?

- A) Steam engine
- B) Diesel engine**
- C) Nuclear engine
- D) Solar engine

16. What is the primary goal of modern hull coating technology?

- A) To change the color of the ship
- B) To reduce drag and prevent marine growth**
- C) To make the ship float higher
- D) To keep the crew warm

17. What is a 'bulk carrier' ship designed to transport?

- A) Passenger luggage
- B) Loose cargo like grain, coal, or ore**
- C) Liquid chemicals only
- D) Military jets

18. What instrument is used to measure air pressure, helping sailors predict changes in weather?

- A) Thermometer
- B) Barometer**
- C) Hygrometer
- D) Compass

19. What is the function of the ship's 'bow'?

- A) The rear of the ship
- B) The front of the ship**
- C) The middle of the ship
- D) The deck of the ship

20. Which invention significantly improved the accuracy of calculating longitude at sea in the 18th century?

A) The marine chronometer

B) The steam engine

C) The radar

D) The sonar