

Maritime Technology Basics

Maritime Technology · Answer Key · 25 Questions

1. What is the primary device used by sailors to determine direction based on the Earth's magnetic field?

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

2. Which piece of equipment is used to measure the depth of water beneath a ship's hull?

- A) Anemometer
- B) Fathometer**
- C) Barometer
- D) Tachometer

3. What is the term for the vertical distance between the waterline and the bottom of the hull?

- A) Freeboard
- B) Draft**
- C) Beam
- D) Length

4. Which technology uses radio waves to detect the distance and speed of other ships or obstacles?

- A) GPS
- B) Sonar
- C) Radar**
- D) Loran

5. What device is used to measure the speed of a vessel through the water?

- A) Speed log**
- B) Clinometer
- C) Gyroscope
- D) Plumb line

6. Which invention allows a ship to travel through narrow canals by raising or lowering the water level?

- A) Dry dock
- B) Ship lock**
- C) Breakwater
- D) Jetty

7. What is the primary function of a ship's rudder?

- A) Propulsion
- B) Steering**
- C) Braking
- D) Stabilizing

8. Which system is used globally to determine a ship's precise position using satellite signals?

- A) AIS
- B) GPS**
- C) VHF
- D) EPIRB

9. What is the purpose of a ballast tank on a ship?

- A) Fuel storage
- B) Cargo handling
- C) Stability and trim**
- D) Fire suppression

10. Which instrument is used to measure the angle between a celestial object and the horizon for navigation?

- A) Sextant**
- B) Telescope
- C) Microscope
- D) Thermometer

11. What is the main purpose of an AIS (Automatic Identification System) transponder?

- A) Navigation mapping
- B) Ship tracking and collision avoidance**
- C) Communication via satellite
- D) Weather forecasting

12. Which part of a ship provides the necessary thrust to move it through the water?

- A) Keel
- B) Propeller**
- C) Anchor
- D) Bulwark

13. What is a 'bow thruster' used for on a large vessel?

- A) High-speed cruising
- B) Ice breaking
- C) Maneuvering at low speeds**
- D) Cargo loading

14. Which emergency device is designed to float and transmit a distress signal if a ship sinks?

- A) EPIRB**
- B) VHF radio
- C) Life ring
- D) Flare gun

15. What is the function of a nautical chart?

- A) Weather reporting
- B) Underwater mapping for navigation**
- C) Engine monitoring
- D) Communication with port

16. Which piece of equipment is used to prevent the anchor chain from tangling?

- A) Windlass
- B) Swivel**
- C) Bollard
- D) Cleat

17. What does a clinometer measure on a ship?

- A) Water temperature
- B) Angle of tilt (roll)**
- C) Wind speed
- D) Current strength

18. What is the 'bridge' of a ship?

- A) The engine room
- B) The cargo hold
- C) The command center**
- D) The kitchen

19. Which of these is a modern alternative to traditional paper nautical charts?

- A) ECDIS**
- B) Sextant
- C) Logbook
- D) Compass

20. What is a 'breakwater' constructed for?

- A) To dock ships
- B) To provide shelter from waves**
- C) To store cargo
- D) To fuel vessels

21. Which unit is used to measure the speed of a ship?

- A) Knots**
- B) Kilometers per hour
- C) Miles per hour
- D) Mach

22. What is the main purpose of a lifebuoy?

- A) Navigation
- B) Fire fighting
- C) Rescue of a person in water**
- D) Storage of water

23. Which device is used to measure atmospheric pressure to predict weather changes at sea?

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

24. What is the 'keel' of a ship?

- A) The mast
- B) The bottom structural backbone**
- C) The steering wheel
- D) The engine

25. What does the term 'freeboard' refer to?

- A) The distance from the waterline to the deck**
- B) The weight of the ship
- C) The speed of the wind
- D) The capacity of the cargo hold