

U.S.C.G. Merchant Marine Exam

Any Deck Officer Endorsement

Q460 Auxiliary Sail Endorsement

(Sample Examination)

**Choose the best answer to the following Multiple Choice Questions.**

**1.** What fitting on the mast works in conjunction with the shrouds to control side bend of the mast?

- (A) Crowfoot
- (B) Hound
- (C) Chainplate
- (D) Spreader

*If choice D is selected set score to 1.*

**2.** Which statement is TRUE concerning the gooseneck?

- (A) It connects the boom to the mast and allows the boom to swing freely.
- (B) It is a sailing maneuver which brings the vessel's head through the wind.
- (C) It is a sailing condition where there is a loss of air flow over the sails.
- (D) None of the above

*If choice A is selected set score to 1.*

**3.** How should you try to right a capsized small sailing vessel?

- (A) Put the centerboard in the up position and have all personnel haul in on the line attached to the mast.
- (B) Position all personnel at the stern and rock the vessel upright.
- (C) Position all personnel around the mast and lift the vessel upright.
- (D) Lock the centerboard in the down position, stand on the centerboard, and pull on a shroud or a halyard.

*If choice D is selected set score to 1.*

**4.** You can slow or stop a sailing vessel by \_\_\_\_\_.

- (A) put the wind off the stern and ease all sheets
- (B) bring the vessel's head into the wind and let the sails luff
- (C) put the wind off the beam and sheet in
- (D) raise the centerboard when running before the wind

*If choice B is selected set score to 1.*

**5.** A sailing vessel with the wind coming from 180° relative would be \_\_\_\_\_.

- (A) close hauled on the starboard tack
- (B) on a broad reach on a port tack
- (C) running before the wind
- (D) close hauled on the port tack

*If choice C is selected set score to 1.*

6. Your 80-ton schooner is hove to on the starboard tack under storm trysail and fore-staysail in 45 knots of wind. Your heading is averaging about 000° true and the wind is from the northeast. There is a dangerous shoal bearing 270° true, range 5 miles. Which action would be appropriate?
- (A) You should set a reefed foresail and strike the jib.
  - (B) You should tack or jibe to the port tack and make all possible headway to the south.
  - (C) You need only stay alert for changes, as your present drift will carry you away from the danger.
  - (D) You should strike all sails and get underway under bare poles, making as much way as possible to the north.

*If choice B is selected set score to 1.*

7. When properly set and drawing, a fore-and-aft sail has a cross-section that \_\_\_\_\_.
- (A) is a uniform curve
  - (B) is a curve with more curve at the luff
  - (C) approximates a straight line
  - (D) is a curve with more curve at the leach

*If choice B is selected set score to 1.*

8. Your vessel is drifting with the wind broad on the port beam. The marconi sail is set and flapping free. As you sheet in the maximum drive is attained when the sail \_\_\_\_\_.
- (A) is 45° from the apparent wind
  - (B) is filled with a slight flap at the leech
  - (C) first takes the shape of an airfoil
  - (D) is at right angles to the true wind

*If choice C is selected set score to 1.*

9. Your vessel is sailing on a port tack when a sudden gust of wind heels the vessel sharply to starboard. Which action will reduce the heeling of the vessel?
- (A) Shift weight to the port side of the vessel
  - (B) Ease the sheets to allow air flow to spill off the sail
  - (C) Attempt to sail the vessel closer to the wind
  - (D) Any of the above

*If choice D is selected set score to 1.*

**10.** A ketch-rigged sailing vessel is sailing to windward with the wind about 50° on the port bow. All the sails are set and drawing properly. Which statement is TRUE?

- (A) If you slack the mizzen sheet, the center of effort will move aft.
- (B) If you slack the main sheet, the lift to drag ratio of the mainsail will increase.
- (C) If you strike the mainsail, the center of effort of the whole rig will move down.
- (D) If you sheet in the mainsail without changing course, the vessel will heel farther and speed up.

*If choice C is selected set score to 1.*

**11.** Your sailing vessel is docked during a storm and is in continuous motion. If a mooring line parts due to vessel motion, it will most likely do so \_\_\_\_\_.

- (A) where it is made fast on the vessel
- (B) at the eye
- (C) midway between the vessel and the dock
- (D) at the chock

*If choice D is selected set score to 1.*

**12.** You are running before a rough sea and a strong wind. Your sailing vessel is yawing. If the wind should catch the mainsail on the reverse side you will \_\_\_\_\_.

- (A) go in irons
- (B) jibe
- (C) broach
- (D) tack

*If choice B is selected set score to 1.*

**13.** A sail plan, including the vessel's itinerary, name, number, and persons aboard, should be filed with \_\_\_\_\_.

- (A) the FAA
- (B) U.S. Customs
- (C) a responsible person
- (D) the Coast Guard

*If choice C is selected set score to 1.*

**14.** You are running before a strong wind in a sloop. The most dangerous thing to do is \_\_\_\_\_.

- (A) tack about
- (B) reef the mainsail
- (C) jibe
- (D) strike the jib

*If choice C is selected set score to 1.*

**15.** Most recreational sailing craft have triangular sails and are said to be \_\_\_\_\_.

- (A) Spinnaker rigged
- (B) Square rigged
- (C) Gaff rigged
- (D) Marconi rigged

*If choice D is selected set score to 1.*

**16.** Which statement(s) is(are) TRUE?

- (A) Canvas sailcloth is susceptible to rot due to moisture and should never be covered when wet.
- (B) Kevlar sail cloth is susceptible to weakening due to repeated folding and therefore should be draped loosely over the boom when stowed.
- (C) Polyester sailcloth, such as Dacron, is resistant to rot due to moisture but susceptible to UV degradation and should be kept covered as much as possible.
- (D) All of the above are true.

*If choice D is selected set score to 1.*

**17.** In illustration D001SL below, what is the edge of the sail labeled "A" called?

- (A) luff
- (B) clew
- (C) leech
- (D) headboard

*If choice A is selected set score to 1.*

**18.** Which fitting is used to connect the boom to the mast?

- (A) Transom
- (B) Gooseneck
- (C) Gunter-lug
- (D) Clevis pin

*If choice B is selected set score to 1.*

**19.** A ketch is a sailing vessel with \_\_\_\_\_.

- (A) two masts: a foremast and a mainmast
- (B) two masts: with the mizzen stepped forward of the rudder post
- (C) one mast
- (D) two masts: with the mizzen stepped abaft the rudder post

*If choice B is selected set score to 1.*

**20.** Which is standing rigging?

- (A) Sheets
- (B) Halyards
- (C) Downhauls
- (D) Stays

*If choice D is selected set score to 1.*

## D001SL

