

U.S.C.G. Merchant Marine Exam  
Master/Chief Mate Offshore Supply Vessels  
Q205 Chart 13205TR  
(Sample Examination)

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

1. The Light List shows that a navigational light has a nominal range of 6 miles and a height above water of 18 feet (5.5 meters). Your height of eye is 40 feet (12.2 meters) and the visibility is 27.0 miles. At which approximate range will you first sight the light?
- A. 5.6 miles
  - B. 6.4 miles
  - C. 9.8 miles
  - D. 12.1 miles

Correct answer: C

2. The following questions are to be answered using Chart 13205TR, Block Island Sound, and supporting publications.

Your vessel is on a course of 090°T at a speed of 14 knots.

Your draft is 37 feet, and your height of eye is 56 feet.

At 1705:

Race Rock Light bears 099°True

Orient Point Light bears 176°True

Bartlett Reef Light bears 083°True

What is your vessel's position?

- A. LAT 41°15.9'N, LONG 72°14.0'W
- B. LAT 41°15.4'N, LONG 72°16.6'W
- C. LAT 41°16.4'N, LONG 72°14.2'W
- D. LAT 41°15.0'N, LONG 72°14.3'W

Correct answer: A

3. If there is no set or drift, at what time would you be abeam of Bartlett Reef Light?
- A. 1734
  - B. 1724
  - C. 1719
  - D. 1729

Correct answer: B

4. At 1718, Bartlett Reef Light bears 050°T at a distance of 1.5 miles. From this position, you change course to 128°T. At 1750 Race Rock Light bears 336°T, Little Gull Island Light bears 285°T, and Montauk Point Light bears 134°T. What were the set and drift of the current you encountered since 1718?
- A. 245°T at 1.7 knots
  - B. 065°T at 0.9 knots
  - C. 065°T at 1.7 knots
  - D. 245°T at 0.9 knots

Correct answer: C

5. If your fathometer is set on fathoms, what should your fathometer read at 1750?
- A. 8.5 fathoms
  - B. 51.0 fathoms
  - C. 10.2 fathoms
  - D. 14.7 fathoms

Correct answer: A

6. At 1756 you determined your vessel's position to be  $41^{\circ}10.4'N$ ,  $71^{\circ}59.2'W$ . From this position, you wish to change course to head for a point 5 miles west of Block Island North Light. With a reported set of  $050^{\circ}T$ , a drift of 2.0 knots and turning RPM's for 14 knots, which course should you steer to make good your desired course?
- A.  $080^{\circ}T$
  - B.  $085^{\circ}T$
  - C.  $075^{\circ}T$
  - D.  $070^{\circ}T$

Correct answer: A

7. At 1844 Watch Hill Point bears  $323^{\circ}T$  and Block Island North Light bears  $084^{\circ}T$ . Which statement is TRUE?
- A. Your vessel is approximately 8.7 miles off Sandy Point.
  - B. Your fathometer reads 97 feet
  - C. You are to the left (north) of your desired course line.
  - D. You are governed by the Inland Rules of the Road.

Correct answer: A

8. From your 1850 position of  $41^{\circ}12.8'N$ ,  $71^{\circ}44.1'W$ , you change course to  $060^{\circ}T$ . If you make the course good, what will be your predicted distance off Point Judith Light when the Light bears  $015^{\circ}T$ ?
- A. 1.9 miles
  - B. 3.4 miles
  - C. 1.2 miles
  - D. 2.7 miles

Correct answer: D

9. You are making good a course of  $060^{\circ}T$  at a speed of 13.5 knots. At 1855 Block Island North Light bears  $086^{\circ}T$ ; at 1910 Block Island North Light bears  $108^{\circ}T$ ; and at 1930 the same light bears  $184^{\circ}T$ . Which statement is TRUE about your 1930 running fix position?
- A. The bottom is mud, sand, and clay.
  - B. The wavy magenta lines to the north through east of your position are designated lobstering areas.
  - C. You are inside the 20 fathom curve.
  - D. You are on the edge of a cable area.

Correct answer: D

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10. At 1942 Point Judith bears 030°T and has a range of 3.6 miles and Sandy Point has a range of 5.3 miles. What was your speed made good from your 1850 position?

- A. 12.5 knots
- B. 14.0 knots
- C. 13.0 knots
- D. 13.5 knots

Correct answer: C