

U.S.C.G. Merchant Marine Exam
Master/Chief Mate of Unlimited Tonnage
Q107 Chart 12354TR
(Sample Examination)

Choose the best answer to the following Multiple-Choice Questions

1. Determine the approximate geographic visibility of an object, with a height above the water of 85 feet (25.9 meters), for an observer with a height of eye of 60 feet (18.3 meters).
- A. 18.4nm
 - B. 19.9nm
 - C. 20.8nm
 - D. 21.5nm

Correct answer: B

2. The following questions are to be answered using Chart 12354TR, Long Island Sound - Eastern Part, and supporting publications.

Your vessel is enroute to New Haven, CT.

You are proceeding at a reduced speed of 9.8 knots on a course of 243°T.

Your height of eye is 45 feet and your vessel's deep draft is 33 feet.

At 0930 you obtain a position from the following information: Race Rock Light bears 110°T at a range of 1.4 miles, and Goshen Point bears 330°T at a range of 3.3 miles. What are your present latitude and longitude?

- A. 41°15.1'N, 72°04.6'W
- B. 41°14.6'N, 72°03.0'W
- C. 41°16.0'N, 72°09.5'W
- D. 41°17.4'N, 72°06.0'W

Correct answer: A

3. At 1000 buoy "PI" is abeam to starboard a distance of 0.5 mile. From this position, with a set of 295° and a drift of 1.6 knots, what course must you steer to arrive at a point with Buoy "TE" one mile abeam to starboard?
- A. 253°T
 - B. 249°T
 - C. 251°T
 - D. 247°T

Correct answer: D

4. At 1130, Horton Point Light bears 172°T at a range of 3.45nm the fathometer reads 81 ft. Which of the following describes your position?
- A. north of your intended track line
 - B. 41°09.4'N, 72°22.6'W
 - C. three miles southeast of Six Mile Reef Buoy "8A"
 - D. 41°08.5'N, 72°27.3'W

Correct answer: D

5. At 1155 your vessel's position is LAT 41°09.0'N, LONG 72°34.4'W. If you make good a course of 282°T and a speed of 10.0 knots, when will you arrive at New Haven Harbor Lighted Whistle Buoy "NH"?
- A. 1325
 - B. 1315
 - C. 1330
 - D. 1320

Correct answer: A

6. From your 1155 position, you steer a course of 282°T at a speed of 9.5 knots. You obtain the following bearings: 1205: Falkner Island Light bears 318°T 1225: Falkner Island Light bears 355°T.

Which of the following describes your 1225 running fix?

- A. Falkner Island Light is bearing 355°T at 2.9nm
- B. ahead of the 1225 DR position
- C. indicates a speed made good less than 9.5 knots
- D. Falkner Island Light is bearing 355°T at 3.3nm

Correct answer: C

7. At 1245 the GPS shows your position to be LAT 41°10.3'N, LONG 72°44.2'W. You are steering a course of 284°T at an engine speed of 13.0 knots. At what time would you expect the New Haven Harbor Outer Range to be in line if you have a current setting 112°T at 1.2 knots?
- A. 1343
 - B. 1323
 - C. 1318
 - D. 1328

Correct answer: B

8. At the time of your 1245 position, which statement is TRUE?
- A. Your fathometer should indicate a reading of approximately 47 feet.
 - B. You are in a danger area.
 - C. You must follow the International Rules of the Road.
 - D. Bradford Reef is 5.7 miles on the starboard bow.

Correct answer: A

9. After departing the New Haven terminals, your 1800 position puts the New Haven Harbor Lighted Whistle Buoy "NH" bearing 130°T at a range of 0.2 mile. From this position you set a course to leave Stratford Shoal Middle Ground Light 1.0 mile off your starboard beam. Your speed is 12.5 knots. At 1845 you determine your position to be LAT 41°05.5'N, LONG 73°03.1'W. What were the set and drift of the current?
- A. 294°T at 0.5 knot
 - B. 114°T at 0.8 knot
 - C. 114°T at 0.5 knot
 - D. 294°T at 0.8 knot

Correct answer: D

10. From your 1845 position, you desire to leave Stratford Shoal Middle Ground Light 1.0 mile off your starboard beam at 1900. Which course and speed would you order if you allow for a 2.0 knot current with a set of 180°T?

- A. 205°T at 9.2 knots
- B. 208°T at 11.4 knots
- C. 215°T at 9.2 knots
- D. 225°T at 11.5 knots

Correct answer: C