

U.S.C.G. Merchant Marine Exam

Master of Unlimited Tonnage

Q305 Chart 12354TR

(Sample Examination)

Choose the best answer to the following Multiple Choice Questions.

1. The Light List indicates that a light has a nominal range of 20 miles and is 52 feet high. If the visibility is 12.0 miles and your height of eye is 20 feet, at what approximate distance will you sight the light?
- (A) 21.5 miles
 - (B) 20.0 miles
 - (C) 13.7 miles
 - (D) 12.0 miles

If choice C is selected set score to 1.

2. The following questions are to be answered using Chart 12354 TR, 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°16.0'N, 72°09.5'W
- (C) 41°17.4'N, 72°06.0'W
- (D) 41°14.6'N, 72°03.0'W

If choice A is selected set score to 1.

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) 249°T
- (B) 251°T
- (C) 253°T
- (D) 247°T

If choice D is selected set score to 1.

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) 41°08.5'N, 72°27.3'W
- (D) three miles southeast of Six Mile Reef Buoy "8A"

If choice C is selected set score to 1.

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) 1320
 - (B) 1325
 - (C) 1315
 - (D) 1330

If choice B is selected set score to 1.

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) ahead of the DR position
 - (B) south of your intended track
 - (C) 3.1 miles SSW of Falkner Island Light
 - (D) north of your intended track

If choice B is selected set score to 1.

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) 1318
 - (B) 1323
 - (C) 1343
 - (D) 1328

If choice B is selected set score to 1.

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

If choice C is selected set score to 1.

9. After departing the New Haven terminals, your 1800 position puts the New Haven Harbor Lighted Bell 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 $41^{\circ}05.5'\text{N}$, LONG $73^{\circ}03.1'\text{W}$. What were the set and drift of the current?
- (A) 114°T at 0.5 knot
 - (B) 294°T at 0.5 knot
 - (C) 294°T at 0.8 knot
 - (D) 114°T at 0.8 knot

If choice C is selected set score to 1.

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

If choice C is selected set score to 1.