

U.S.C.G. Merchant Marine Exam

Mate Less than 500-1600 Gross Registered Tons

Q330 Chart 12354TR

(Sample Examination)

Choose the best answer to the following Multiple Choice Questions.

1. The following questions should be answered using Chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications.

Your vessel has a draft of 9 feet (2.7 meters).
Your height of eye is 25 feet (7.6 meters).
Variation is 14°W

"Per standard magnetic compass" is abbreviated "psc"
"Per gyrocompass" is abbreviated "pgc"

DEVIATION TABLE

Magnetic Heading	Deviation
000°	0.0°
030°	1.0°W
060°	3.0°W
090°	2.0°W
120°	1.0°W
150°	0.0°
180°	0.0°
210°	1.0°E
240°	2.0°E
270°	1.5°E
300°	1.0°E
330°	0.0°

You are turning for 7.5 knots.
As you enter the New Haven Outer Channel, you sight the range markers in line directly over the stern. Your heading at the time is 155.5°pgc.

What is the gyro error?

- (A) 1.0°W
- (B) 2.0°E
- (C) 1.0°E
- (D) 2.0°W

If choice D is selected set score to 1.

2. At 0720, you are in the outer channel between buoy "1" and buoy "2" and change course to pass Townshend Ledge Lighted Bell Buoy "10A" abeam to port at 200 yards. What is your ETA off the buoy?

- (A) 0734
- (B) 0741
- (C) 0738
- (D) 0745

If choice C is selected set score to 1.

3. At 0740, you take the following Radar Ranges:
Branford Reef Light at 2.5 nm
New Haven Light at 3.9 nm

What is your position?

- (A) LAT 41°12.6'N, LONG 72°51.8'W
- (B) LAT 41°12.7'N, LONG 72°51.9'W
- (C) LAT 41°12.4'N, LONG 72°51.5'W
- (D) LAT 41°12.2'N, LONG 72°52.0'W

If choice C is selected set score to 1.

4. From your 0740 position, you change course to pass 1.1 miles north of Falkner Island Light. A northerly wind is causing a 2° leeway. What gyro course should you steer in order to ensure that you will remain clear of the 18' shoal located 1 mile NW of Falkner Island Light?

- (A) 079° pgc
- (B) 077° pgc
- (C) 081° pgc
- (D) 085° pgc

If choice C is selected set score to 1.

5. At 0802, Branford Reef Light bears 348°T at 0.75 mile, and the north point of Falkner Island bears 088°T at 6.7 miles. What were the set and drift since 0740?

- (A) You are making good your intended course and speed.
- (B) Set 040°T, drift .2 knot
- (C) Set 220°T, drift .2 knot
- (D) Set 220°T, drift .6 knot

If choice D is selected set score to 1.

6. What publication contains information on the navigational hazards in the vicinity of Falkner Island?

- (A) U.S. Coast Guard Light List
- (B) Inland Navigation Rules
- (C) U.S. Coast Pilot
- (D) The navigational regulations in Title 46, Code of Federal Regulations

If choice C is selected set score to 1.

7. If there is no current, what is the course per standard magnetic compass from your 0802 fix to the position 1.1 miles north of Falkner Island Light?

- (A) 099°
- (B) 068°
- (C) 064°
- (D) 095°

If choice D is selected set score to 1.

8. At 0830, you wish to get the latest weather forecasts for the Falkner Island area. On what frequency would you set your FM radio for this information?
- (A) 156.80 Mhz
 - (B) 2181 kHz
 - (C) 156.65 Mhz
 - (D) 162.40 Mhz

If choice D is selected set score to 1.

9. At 0844, the range to the north end of Falkner Island is 2.0 miles and the left tangent bearing is 102°T . What is the approximate charted depth of the water?
- (A) 22 ft (6.7 meters)
 - (B) 29 ft (8.8 meters)
 - (C) 19 ft (5.8 meters)
 - (D) 14 ft (4.2 meters)

If choice B is selected set score to 1.

10. At 0925, you plot the following bearings and range: Falkner Island Light bearing 251°T at 1.7nm
Kelsey Point BW Light bearing 075°T If you correct for a current setting 215°T at 0.5 knot, what course will you steer from the 0925 position to arrive at a position 0.5 mile south of Long Sand Shoal West End Horn Buoy "W"?
- (A) 102°T
 - (B) 088°T
 - (C) 096°T
 - (D) 093°T

If choice B is selected set score to 1.

11. If you correct for the current in the previous question (215°T at 0.5 knot) and maintain an engine speed of 7.5 knots, what is your ETA 0.5 mile south of buoy "W"?
- (A) 1021
 - (B) 1014
 - (C) 1018
 - (D) 1026

If choice D is selected set score to 1.

12. At what approximate distance would you expect Bartlett Reef Light to break the horizon, if the visibility is 27 nautical miles?
- (A) 12.0 nm
 - (B) 5.9 nm
 - (C) 6.9 nm
 - (D) 12.8 nm

If choice D is selected set score to 1.

13. At 1038, you are 0.4 mile south of Long Sand Shoal Buoy "8A" on course 090°T. If you continue on your present course to the approaches of New London which of the following is true?

- (A) You are entering a restricted area
- (B) You will clear Plum Island Whistle buoy at a range of 0.4 nm.
- (C) You are governed by the inland rules of the road.
- (D) You switch to chart 13214.

If choice C is selected set score to 1.

14. At 1200, your position is 2.0 miles southwest of Bartlett Reef Light. Your heading is 075°T. Visibility is less than 0.2 mile in fog and rain. Which of the following signals is most likely to be from another vessel?

- (A) Whistle from 125° relative
- (B) Bell from 350° relative
- (C) Whistle from 075° relative
- (D) Horn from 330° relative

If choice C is selected set score to 1.

15. What chart should you use after you enter New London Harbor?

- (A) 13213
- (B) 13211
- (C) 13272
- (D) 13214

If choice A is selected set score to 1.