

U.S.C.G. Merchant Marine Exam

Master Less than 500-1600 Gross Registered Tons

Q323 Chart 12221TR

(Sample Examination)

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

1. The luminous range of a light takes into account which factor?

- A. The existing visibility conditions
- B. The glare from background lighting
- C. The elevation of the light
- D. The observer's height of eye

Correct answer: A

2. The following questions are to be answered using Chart 12221TR, Chesapeake Bay Entrance, and supporting publications.

You are southbound along the coast on a course of 180°T and the engine speed is 14 knots.

Your draft is 16 feet.

Gyro error is 2°W .

Use 10°W variation where required

At 2000 Hog Island Lighted Bell Buoy "12" bears 199°T and Buoy "GM" bears 249°T .

What is your position?

- A. $37^{\circ}03.5'\text{N}$, $75^{\circ}32.2'\text{W}$
- B. $37^{\circ}03.5'\text{N}$, $75^{\circ}02.2'\text{W}$
- C. $37^{\circ}35.0'\text{N}$, $75^{\circ}32.2'\text{W}$
- D. $37^{\circ}23.5'\text{N}$, $75^{\circ}32.2'\text{W}$

Correct answer: D

3. From your 2000 position you change course to 206°T . What time would you expect to be abeam of Hog Island Buoy "12"?

- A. 2031
- B. 2040
- C. 2021
- D. 2026

Correct answer: D

4. You should expect to pass how far off buoy "12"?

- A. 2.1 miles
- B. 0.8 mile
- C. 1.7 miles
- D. 1.2 miles

Correct answer: B

5. At 2030 you take the following bearings:

Sand Shoal Inlet South Light - 275°T
Cape Charles Light - 235°T

What is the set and drift from 2000 to 2030?

- A. 268° at 1.4 knots
- B. 088° at 0.7 knot
- C. 268° at 0.7 knot
- D. 088° at 1.4 knots

Correct answer: A

6. From your 2030 fix you change course to 195°T, and leave the engine speed at 14 knots.

At 2045, your position is Lat 37°13.50'N Long 075°38.05'W

Which statement is TRUE?

- A. Chesapeake Light bears 190° relative.
- B. Your fathometer reading is approximately 40 fathoms.
- C. Your vessel is located in a restricted area.
- D. Cape Charles Light bears 050° relative.

Correct answer: D

7. You continue to steer 195°T. You pass Cape Charles Lighted Bell Buoy "14", 0.9 miles abeam to starboard at 2111. What is your speed made good from 2045 to 2111?

- A. 14.8 knots
- B. 14.5 knots
- C. 14.1 knots
- D. 13.7 knots

Correct answer: A

8. What is your course made good from 2045 to 2111?

- A. 187°T
- B. 190°T
- C. 193°T
- D. 196°T

Correct answer: C

9. If you are going to head directly for Chesapeake Light from your 2111 fix, what is the course to make good?

- A. 196°T
- B. 190°T
- C. 199°T
- D. 193°T

Correct answer: B

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Illustrations: 0

10. At 2200, you alter course to 204°T , at 14 knots. You expect a current on this leg of the trip, setting 325° at 1.5 knots. Which course should you steer per gyrocompass to make good the true course?
- A. 190°pgc
 - B. 184°pgc
 - C. 201°pgc
 - D. 194°pgc

Correct answer: C