

U.S.C.G. Merchant Marine Exam

Apprentice Mate Steersman

Q414 Chart 12221TR

(Sample Examination)

Choose the best answer to the following Multiple Choice Questions:

1. What is the approximate geographic range of Assateague Light, VA, if your height of eye is 52 feet (15.8 meters)? Refer to "Reprints from the LIGHT LISTS AND COAST PILOTS".
- (A) 14.1 nm
 - (B) 21.8 nm
 - (C) 23.0 nm
 - (D) 50.2 nm

If choice C is selected set score to 1.

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 $180^{\circ}T$ and the engine speed is 14 knots.
Your draft is 16 feet.
Gyro error is $2^{\circ}W$.
Use $10^{\circ}W$ variation where required.

At 2000 Hog Island Lighted Bell Buoy "12" bears $199^{\circ}T$ and Buoy "GM" bears $249^{\circ}T$.

What is your position?

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

If choice D is selected set score to 1.

3. From your 2000 position you change course to $206^{\circ}T$. What time would you expect to be abeam of Hog Island Buoy "12"?

- (A) 2040
- (B) 2021
- (C) 2026
- (D) 2031

If choice C is selected set score to 1.

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

- (A) 1.7 miles
- (B) 1.2 miles
- (C) 2.1 miles
- (D) 0.8 mile

If choice D is selected set score to 1.

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) 088° at 1.4 knots
- (D) 268° at 0.7 knot

If choice A is selected set score to 1.

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

If choice D is selected set score to 1.

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) 14.5 knots
- (B) 13.7 knots
- (C) 14.8 knots
- (D) 14.1 knots

If choice C is selected set score to 1.

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

- (A) 187°T
- (B) 190°T
- (C) 193°T
- (D) 196°T

If choice C is selected set score to 1.

9. If you are going to head directly for Chesapeake Light from your 2111 fix, what is the course to make good?
- (A) 193°T
 - (B) 199°T
 - (C) 196°T
 - (D) 190°T

If choice D is selected set score to 1.

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) 194°pgc
 - (D) 201°pgc

If choice D is selected set score to 1.