

U.S.C.G. Merchant Marine Exam  
Mate Uninspected Fishing Vessels  
Q192 Chart 12221TR  
(Sample Examination)

Choose the best answer to the following Multiple Choice Questions.

1. The following questions are based on Chart 12221TR, Chesapeake Bay Entrance, and the supporting publications.

The draft of your vessel is 9.0 feet (2.75 meters)  
Gyro error is 2°W  
Variation is 10°W

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

***DEVIATION TABLE***

<b>Magnetic Heading</b>	<b>Deviation</b>
000°	1.5°E
030°	2.0°E
060°	1.0°E
090°	0°
120°	1.0°W
150°	1.5°W
180°	2.5°W
210°	1.5°W
240°	1.0°W
270°	0.5°W
300°	0°
330°	0.5°E

On 31 July, you are anchored at LAT 37°22.4'N, LONG 75°39.9'W  
You get underway at 0240 enroute to Yorktown, VA

What is the course psc from the anchorage to point A located 0.5 mile east of Cape Charles Lighted Bell Buoy 14?

- (A) 194°psc
- (B) 180°psc
- (C) 190°psc
- (D) 187°psc

*If choice A is selected set score to 1.*

2. Which of the following describes the coast between Great Machipongo Inlet and Cape Charles?

- (A) composed of high, rocky bluffs and wooded uplands
- (B) marked by prominent, isolated, barren hills
- (C) low, with sandy beaches bordered by marsh and woodlands
- (D) broken by the mouths of several major rivers

*If choice C is selected set score to 1.*

3. If your engines turn for 6.5 knots, and you encounter a 0.5 knot southerly current, what is your ETA at point A?
- (A) 0400
  - (B) 0501
  - (C) 0511
  - (D) 0450

*If choice D is selected set score to 1.*

4. What is the course to steer per gyrocompass from the anchorage to point "A" if easterly winds are causing 3° of leeway?
- (A) 178°pgc
  - (B) 185°pgc
  - (C) 189°pgc
  - (D) 181°pgc

*If choice D is selected set score to 1.*

5. At 0250, Great Machipongo Inlet Light "5" (37°21.8'N, 75°43.7'W) bears 279°pgc.

At 0320, the light bears 320° pgc.

If you are making good 6.5 knots, what is the position of your 0320 running fix?

- (A) LAT 37°18.00'N, LONG 75°39.75'W
- (B) LAT 37°18.10'N, LONG 75°39.55'W
- (C) LAT 37°18.10'N, LONG 75°39.30'W
- (D) LAT 37°17.95'N, LONG 75°39.95'W

*If choice B is selected set score to 1.*

6. At 0400, you obtain the following information:

Sand Shoal Inlet South Light bearing 303° true at 7.1nm

What is your 0400 position?

- (A) LAT 37°14.0'N, LONG 75°40.7'W
- (B) LAT 37°14.1'N, LONG 75°41.3'W
- (C) LAT 37°14.2'N, LONG 75°40.7'W
- (D) LAT 37°14.1'N, LONG 75°40.5'W

*If choice A is selected set score to 1.*

7. The visibility is about 5 miles. Which statement about Cape Charles Light is TRUE?

- (A) You will not see the light until you are within 5 miles of the light.
- (B) The light was visible at about 0400.
- (C) The light has been visible since you departed the anchorage.
- (D) The light will not be visible until you enter the inbound leg of the traffic separation scheme.

*If choice B is selected set score to 1.*

8. Which statement about your 0400 position is TRUE?

- (A) You are governed by the Inland Rules of the Road.
- (B) Anchoring, trawling and fishing are prohibited.
- (C) You are within the territorial sea and contiguous zone.
- (D) The ocean floor is composed of shale.

*If choice C is selected set score to 1.*

9. At 0405, you increase speed.

At 0500, your position is LAT 37°06.0'N, LONG 75°41.1'W.

What is the approximate depth of the water under the keel?

- (A) 54 feet (16.4 meters)
- (B) 62 feet (18.8 meters)
- (C) 66 feet (20.0 meters)
- (D) 46 feet (13.9 meters)

*If choice D is selected set score to 1.*

10. At 0600, you are entering the inbound leg of the traffic separation scheme at position LAT 36°59.2'N, LONG 75°47.6' W. Course is 250°T.

At 0605, Cape Henry Light bears 249°T

At 0610, Cape Henry Light bears 248°T

At 0625, Cape Henry Light bears 247°T

Based on this, you know you are \_\_\_\_\_.

- (A) meeting a current from dead ahead
- (B) being set to the north
- (C) being set to the south
- (D) running with a current from dead ahead

*If choice B is selected set score to 1.*

**11.** Which of the following is a characteristic of the abandoned lighthouse at Cape Henry?

- (A) gray, pyramidal tower
- (B) octagonal, black and white tower
- (C) mound of broken rubble
- (D) black, skeleton structure

*If choice A is selected set score to 1.*

**12.** Weather broadcasts for the Norfolk area are broadcast on which frequency?

- (A) 162.30 MHz
- (B) 162.35 MHz
- (C) 162.50 MHz
- (D) 162.55 MHz

*If choice D is selected set score to 1.*

**13.** When Cape Henry Light is abeam, what is the approximate distance to Yorktown?

- (A) 58 miles
- (B) 42 miles
- (C) 34 miles
- (D) 55 miles

*If choice C is selected set score to 1.*

**14.** As you pass between trestle "B" and trestle "C" of the Chesapeake Bay Bridge - Tunnel, you sight along the trestle "C" when it is in line. The trestle bears  $057^\circ$  per standard magnetic compass while the vessel is heading  $320^\circ$ T. Which of the following can be determined from this information?

- (A) deviation is  $10^\circ$ W
- (B) compass error is  $12^\circ$ W
- (C) vessel should be swung to check the deviation table
- (D) deviation table is correct for that bearing

*If choice C is selected set score to 1.*

**15.** The wind is easterly and will cause  $2^\circ$  of leeway. The current is  $180^\circ$  at 0.5 knot. If your engines are turning for 8.0 knots, what should you steer to remain in York River Entrance Channel?

- (A)  $315^\circ$ T
- (B)  $310^\circ$ T
- (C)  $307^\circ$ T
- (D)  $304^\circ$ T

*If choice A is selected set score to 1.*