

## U.S.C.G. Merchant Marine Exam

Master or Mate Less than 200 Gross Registered Tons

Q343 Chart 12221TR

(Sample Examination)

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Illustrations: 0

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

The following questions are to be answered by plotting on chart 12221TR, Chesapeake Bay, and using the supporting publications.

Each question is completely independent of any other question on this exam.  
The following information is applicable to all questions.  
The abbreviation "psc" stands for "per standard magnetic compass".

VARIATION IS 9° W

***DEVIATION TABLE***

<u>HDG.MAG.</u>	<u>DEVIATION</u>
000°	2.0°E
030°	3.0°E
060°	4.0°E
090°	.0°E
120°	1.0°E
150°	1.0°W
180°	2.0°W
210°	3.5°W
240°	3.0°W
270°	1.5°W
300°	0.0°
330°	1.5°E

1. You are on course 135° per standard magnetic compass when you take the following bearings per standard magnetic compass:

Cape Henry Light 266°  
Cape Charles Light 353°  
Chesapeake Light 124°

What is your position?

- (A) LAT 36°57.3'N, LONG 75°50.9'W
- (B) LAT 36°57.5'N, LONG 75°50.1'W
- (C) LAT 36°57.6'N, LONG 75°51.6'W
- (D) LAT 35°57.9'N, LONG 75°50.8'W

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

2. What correction should be applied to the charted depths of the Poquoson River at York Point at the PM low water on 18 December 1983?
- (A) -0.1 feet
  - (B) -0.4 feet
  - (C) +1.9 feet
  - (D) No correction is necessary

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

3. Your position is LAT 37°00.0'N, LONG 75°30.0'W. What is the course to steer per standard magnetic compass to arrive at LAT 36°59.0'N, LONG 75°48.5'W, if you are turning for 8.7 knots, the current is 039°T at 1.3 knots, and a northwesterly wind is causing 3° of leeway?
- (A) 267.5°
  - (B) 270.0°
  - (C) 273.0°
  - (D) 264.0°

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

4. While in the Back River, you sight the two tanks along the Northwest Branch (vicinity LAT 37°05.6'N, LONG 76°22.0'W) in line bearing 277° per standard magnetic compass. If your vessel is heading 243°psc, what is TRUE?
- (A) The deviation table is incorrect.
  - (B) The deviation is 3°E for bearings of 277°psc.
  - (C) The compass error is 12°W.
  - (D) There is no deviation.

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

5. You are considering anchoring approximately three miles northeast of Chesapeake Light. After examining the chart you decide not to because of the \_\_\_\_\_.
- (A) area being designated as a National Marine Sanctuary
  - (B) large number of wrecks
  - (C) coral being designated as a special protected area
  - (D) danger of unexploded mines

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

6. At 0919 you are in Chesapeake Channel between Trestle B and Trestle C of the Chesapeake Bay Bridge and Tunnel. What is your ETA between York River Entrance Channel Buoys "17" and "18" if you are making 11.3 knots?
- (A) 1039
  - (B) 1049
  - (C) 1034
  - (D) 1044

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

7. What is the first course per standard magnetic compass (psc) in the outbound southeasterly traffic lane of the Chesapeake Bay entrance traffic separation scheme?
- (A) 143°psc
  - (B) 133°psc
  - (C) 138°psc
  - (D) 148°psc

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

8. At 1919 your position is LAT 37°00.0'N, LONG 75°30.0'W. At 1950 your position is LAT 36°59.5'N, LONG 75°37.0'W. What is the speed made good?
- (A) 10.9 knots
  - (B) 5.6 knots
  - (C) 9.1 knots
  - (D) 8.2 knots

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

9. Local magnetic disturbances of up to how many degrees have been noted from Cape Henry to Currituck Beach Light?
- (A) 17 degrees
  - (B) 2 degrees
  - (C) 6 degrees
  - (D) 11 degrees

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

10. At 0919 your position is LAT 37°00.0'N, LONG 75°30.0'W. You are on course 270°T at 8.7 knots. At 1031 your position is LAT 36°59.5'N, LONG 75°44.9'W. What was the set and drift?
- (A) 073° at 1.2 knots
  - (B) 060° at 0.7 knot
  - (C) 239° at 0.8 knot
  - (D) 252° at 1.3 knots

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