

U.S.C.G. Merchant Marine Exam
Operator Uninspected Passenger Vessels
Q172 Chart 12221TR
(Sample Examination)

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

The following questions are to be answered by plotting on chart 12221 TR, 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

<i><u>Magnetic</u></i> <i><u>Heading</u></i>	<i><u>Deviation</u></i>
000°	2.0°E
030°	3.0°E
060°	4.0°E
090°	2.0°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. What are the bottom characteristics of Nautilus Shoal (LAT 37°03'N, LONG 75°56'W)?

- A. Sand and shells
- B. Hard sand
- C. Mud and sand
- D. Fine gray sand

Correct answer: D

2. Which of the following describes the abandoned lighthouse west of Cape Henry Light?

- A. it is painted black and white
- B. it is a gray, pyramidal structure
- C. it is a steel skeleton structure
- D. it is a low mound of rubble

Correct answer: B

3. What is the horizontal clearance of the navigation opening of Trestle B of the Chesapeake Bay Bridge and Tunnel?
- A. 300 feet
 - B. 70 feet
 - C. 21 feet
 - D. 75 feet

Correct answer: B

4. You are on course 027° per magnetic compass when you take the following bearings per magnetic compass:

New Point Comfort Spit Light "2" 253°
Horn Harbor Entrance Light HH 282°
Wolf Trap Light 348°

What is the position of the fix?

- A. LAT 37°19.7'N, LONG 76°09.9'W
- B. LAT 37°19.7'N, LONG 76°10.3'W
- C. LAT 37°19.4'N, LONG 76°09.8'W
- D. LAT 37°19.4'N, LONG 76°09.5'W

Correct answer: A

5. You sight Thimble Shoal Light in line with Old Point Comfort Light bearing 265° per standard magnetic compass. You are on course 135°psc. Based on this information which of the following is true?

- A. there is no compass error
- B. you should swing your vessel and check the deviation table
- C. there is a local magnetic disturbance
- D. the deviation is 0°

Correct answer: D

6. Your 1302 position is LAT 37°14.7'N, LONG 76°22.7'W. You are turning for 9.6 knots. What is your ETA at Trestle C of the Chesapeake Bay Bridge and Tunnel if you follow York River Entrance Channel?

- A. 1500
- B. 1516
- C. 1451
- D. 1505

Correct answer: D

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. 148°psc
- B. 138°psc
- C. 133°psc
- D. 143°psc

Correct answer: A

8. What is the true heading to steer outbound in Thimble Shoal Channel if your engines are turning for 8.0 knots, the current is 050°T at 1.0 knot and a northerly wind causes 3° of leeway?
- A. 104°T
 - B. 098°T
 - C. 101°T
 - D. 111°T

Correct answer: D

9. At 1239 your GPS indicates a position of LAT 36°55.2'N, LONG 75°33.1'W. You are on course 281° per standard magnetic compass at a speed of 9.2 knots. At 1318 your GPS indicates your position as LAT 36°54.8'N, LONG 75°39.8'W. What were the set and drift?
- A. 130°T at 1.2 knots
 - B. 335°T at 1.0 knot
 - C. 156°T at 0.6 knot
 - D. 352°T at 1.3 knots

Correct answer: A

10. At 1256 your GPS position is LAT 36°57.0'N, LONG 75°41.0'W. At 1336 your position is LAT 37°07.5'N, LONG 75°39.1'W. What was the speed made good between the fixes?
- A. 18.6 knots
 - B. 15.2 knots
 - C. 14.6 knots
 - D. 16.0 knots

Correct answer: D