

U.S.C.G. Merchant Marine Exam

Master or Mate Less than 200 Gross Registered Tons

Q343 Navigation Problems - Chart 13205TR

(Sample Examination)

Choose the best answer to the following Multiple Choice Questions.

The following questions are to be answered by plotting on chart 13205 TR, Block Island Sound, 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 15° W

DEVIATION TABLE

HDG.MAG.	DEVIATION
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 trapezoidal shaped areas enclosed by a thin broken magenta line and located along the south coast of Long Island?
- (A) fish trap areas
 - (B) designated training areas for Navy amphibious craft
 - (C) disposal areas for unexploded munitions
 - (D) anchorage areas for small craft

If choice A is selected set score to 1.

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Illustrations: 0

2. You are turning for 7.5 knots and a westerly wind is causing 2° of leeway. There is a current of 047°T at 1.2 knots. What course should you steer between the entrance to Quonochontaug Pond (LAT 41°19.8'N, LONG 71°43.2'W) and the entrance to Great Salt Pond (LAT 41°12.0'N, LONG 71°35.6'W)?

- (A) 140°T
- (B) 155°T
- (C) 156°T
- (D) 144°T

If choice B is selected set score to 1.

3. At 1113 you are in the entrance to Great Salt Pond on Block Island with buoy "5" close aboard. What is your ETA at light "1" at the mouth of the approaches to Lake Montauk if you make good 9.6 knots?

- (A) 1310
- (B) 1301
- (C) 1254
- (D) 1249

If choice B is selected set score to 1.

4. What do areas enclosed by a long and short dashed magenta lines indicate?

- (A) precautionary areas
- (B) cable areas
- (C) dumping grounds
- (D) fish trap areas

If choice D is selected set score to 1.

5. You are 3 miles due east of Montauk Point Light. What is the course per standard magnetic compass to LAT 41°00.0'N, LONG 71°30.0'W?

- (A) 122°psc
- (B) 130°psc
- (C) 108°psc
- (D) 124°psc

If choice A is selected set score to 1.

6. At 0726 you depart Lake Montauk with light 1 close aboard and set course 065° per standard magnetic compass at 6.7 knots. At 0912 your GPS position is LAT $41^\circ 10.5'N$, LONG $71^\circ 46.6'W$. What is the current?
- (A) $227^\circ T$ at 0.9 knot
 - (B) $151^\circ T$ at 1.2 knots
 - (C) $164^\circ T$ at 0.7 knot
 - (D) $240^\circ T$ at 1.4 knots

If choice D is selected set score to 1.

7. At 1014 you depart the entrance to Lake Montauk with light "1" close aboard. Your course is 066° per standard magnetic compass, and the speed is 8.6 knots. At 1232 your position is LAT $41^\circ 20.0'N$, LONG $71^\circ 40.0'W$. What is the course made good?
- (A) $047^\circ T$
 - (B) $040^\circ T$
 - (C) $036^\circ T$
 - (D) $044^\circ T$

If choice B is selected set score to 1.

8. You sight North Dumpling Island Light in line with Latimer Reef Light (LAT $41^\circ 18.2'N$, LONG $71^\circ 56.0'W$) bearing 091° per standard magnetic compass. If your vessel was heading 246° per standard magnetic compass at the time, which of the following is TRUE?
- (A) The compass error is $18^\circ W$ for that heading.
 - (B) The deviation is equal to the variation.
 - (C) The deviation table is correct.
 - (D) The deviation is equal to but of opposite sign to the variation.

If choice A is selected set score to 1.

9. You are on course 157° per standard magnetic compass when you take the following bearings:

Little Gull Island Light $276^\circ psc$

Race Rock Light $301^\circ psc$

Latimer Reef Light $028^\circ psc$

What is your position?

- (A) LAT $41^\circ 13.6'N$, LONG $71^\circ 57.8'W$
- (B) LAT $41^\circ 13.6'N$, LONG $71^\circ 57.0'W$
- (C) LAT $41^\circ 13.5'N$, LONG $71^\circ 57.4'W$
- (D) LAT $41^\circ 13.5'N$, LONG $71^\circ 57.9'W$

If choice C is selected set score to 1.

10. What is the velocity of the maximum ebb current approximately 1.1 miles ENE of Little Gull Island in the afternoon of 25 April 1983?

- (A) 5.5 knots
- (B) 4.2 knots
- (C) 4.7 knots
- (D) 1.3 knots

If choice A is selected set score to 1.