

U.S.C.G. Merchant Marine Exam

Master or Mate Less than 200 Gross Registered Tons

Q153 Navigation Problems - Chart 13205 TR

(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 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

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. On the south and the east coasts of Block Island are circles with a dot in the center and labeled CUP. This is a _____.
- (A) calling-up-point used for traffic control
 - (B) domed structure useful for navigation
 - (C) steep depression in the surrounding hills that resembles a cup
 - (D) conspicuous object

If choice B is selected set score to 1.

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

Little Gull Island Light 276°psc
Race Rock Light 301°psc
Latimer Reef Light 028°psc

What is your position?

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

If choice D is selected set score to 1.

3. You sight North Dumpling Island Light in line with Latimer Reef Light (LAT 41°18.2'N, LONG 71°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 deviation table is correct.
- (B) The deviation is equal to but of opposite sign to the variation.
- (C) The deviation is equal to the variation.
- (D) The compass error is 18°W for that heading.

If choice D is selected set score to 1.

4. 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°20.0'N, LONG 71°40.0'W. What is the course made good?

- (A) 047°T
- (B) 044°T
- (C) 040°T
- (D) 036°T

If choice C is selected set score to 1.

5. 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) 4.2 knots
- (B) 1.3 knots
- (C) 4.7 knots
- (D) 5.5 knots

If choice D is selected set score to 1.

6. 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) 1249
 - (D) 1254

If choice B is selected set score to 1.

7. What is the true course to steer between the entrance to Winnapaug Pond (LAT 41°19.6'N, LONG 71°45.8'W) and the entrance to Lake Montauk (LAT 41°04.8'N, LONG 71°56.3'W), if you are turning for 6.5 knots, allow for a current of 295°T at 0.9 knot, and an easterly wind is causing 4° of leeway?
- (A) 196°T
 - (B) 217°T
 - (C) 200°T
 - (D) 213°T

If choice A is selected set score to 1.

8. 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°10.5'N, LONG 71°46.6'W. What is the current?
- (A) 227°T at 0.9 knot
 - (B) 151°T at 1.2 knots
 - (C) 240°T at 1.4 knots
 - (D) 164°T at 0.7 knot

If choice C is selected set score to 1.

9. 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) 130°psc
 - (B) 122°psc
 - (C) 108°psc
 - (D) 124°psc

If choice B is selected set score to 1.

10. What are the soundings on this chart measured in?
- (A) feet
 - (B) meters
 - (C) fathoms
 - (D) yards

If choice A is selected set score to 1.