

U.S.C.G. Merchant Marine Exam

Master or Mate Less than 200 Gross Registered Tons

Q153 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

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 is the height of the tide at Great Salt Pond on Block Island at the afternoon high water (daylight savings time) on 1 July 1983?
- (A) 2.4 feet
 - (B) 3.9 feet
 - (C) 3.0 feet
 - (D) 2.1 feet

If choice D is selected set score to 1.

2. Determine the course per standard magnetic compass from the entrance to Quonochontaug Pond (LAT 41°19.8'N, LONG 71°43.2'W) to the entrance to Great Salt Pond on Block Island.
- (A) 156.0°psc
 - (B) 134.0°psc
 - (C) 159.0°psc
 - (D) 129.5°psc

If choice C is selected set score to 1.

3. 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) 213°T
 - (B) 217°T
 - (C) 196°T
 - (D) 200°T

If choice C is selected set score to 1.

4. At 2038 your position is LAT 41°09.2'N, LONG 71°40.6'W. You are on course 301° per standard magnetic compass at 7.2 knots. At 2152 your position is LAT 41°11.3'N, LONG 71°48.6'W. What were the set and drift?
- (A) 261°T at 1.2 knots
 - (B) 080°T at 1.0 knot
 - (C) 096°T at 2.0 knots
 - (D) 277°T at 0.9 knot

If choice C is selected set score to 1.

5. At 1016 your GPS position is LAT 41°07.6'N, LONG 71°38.5'W. At 1104 your position is LAT 41°00.4'N, LONG 71°29.4'W. What was the speed made good between the two positions?
- (A) 10.9 knots
 - (B) 11.7 knots
 - (C) 13.6 knots
 - (D) 12.5 knots

If choice D is selected set score to 1.

6. You are on course 244° per standard magnetic compass when you sight Block Island Southeast Point Light in line with Block Island Aero Beacon bearing 326° per standard magnetic compass. Based on this information which of the following should you do?
- (A) know the compass error is 12°W
 - (B) suspect that there is a local magnetic disturbance
 - (C) apply 3°W deviation to any bearing (psc) while on a heading of 244°psc
 - (D) swing your vessel to check the deviation table

If choice C is selected set score to 1.

7. You are on course 053° per standard magnetic compass when you take the following bearings:

Little Gull Island Light 275°psc

Race Rock Light 296°psc

Latimer Reef Light 011°psc

What is your position?

- (A) LAT 41°13.8'N, LONG 71°56.1'W
- (B) LAT 41°12.9'N, LONG 71°56.3'W
- (C) LAT 41°13.4'N, LONG 71°55.5'W
- (D) LAT 41°13.2'N, LONG 71°56.0'W

If choice D is selected set score to 1.

8. At 1523 your position is LAT 41°08.2'N, LONG 71°34.4'W. You are turning for 8.7 knots. What is your ETA at Shagwong Reef Buoy "7SR"?

- (A) 1718
- (B) 1700
- (C) 1711
- (D) 1653

If choice C is selected set score to 1.

9. What soundings are indicated by a blue tint on this chart?

- (A) 30 feet or more
- (B) 30 feet or less
- (C) 30 fathoms or more
- (D) 30 fathoms or less

If choice B is selected set score to 1.

10. The Ruins (LAT 41°08.5'N, LONG 72°08.8'W) is _____.

- (A) a classic example of 18th century military fortifications
- (B) restricted to surface navigation due to fishery conservation projects nearby
- (C) prohibited to the public
- (D) in an area of unpredictable, treacherous currents

If choice C is selected set score to 1.