

U.S.C.G. Merchant Marine Exam

Master Less than 100 Gross Registered Tons

Q163 Navigation Problems - Chart 13205TR

(Sample Examination)

Choose the best answer to the following Multiple Choice Questions.

The following ten problems are to be answered by plotting on chart 13205 TR, Block Island Sound, and using the supporting publications. Each of the ten questions is completely independent of any other question on this exam.

The following information is applicable to all ten 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 does the precautionary area southeast of Block Island refer to?

- (A) recommended traffic lane
- (B) military exercise area
- (C) national marine refuge
- (D) dumping ground for hazardous wastes

If choice A is selected set score to 1.

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

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

If choice B is selected set score to 1.

3. 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.

4. At 1516 your position is LAT 41°11.3'N, LONG 71°48.6'W. You are on course 300° per standard magnetic compass at 9.4 knots. At 1600 your position is LAT 41°14.0'N, LONG 71°58.1'W. What were the set and drift?

- (A) 142°T at 1.9 knots
- (B) 332°T at 1.5 knots
- (C) 347°T at 1.1 knots
- (D) 153°T at 1.4 knots

If choice B 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 a position one mile due south of Block Island Southeast Point Light?
- (A) 076.5°
 - (B) 087.5°
 - (C) 070.0°
 - (D) 082.5°

If choice D is selected set score to 1.

6. 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) 1.3 knots
 - (C) 4.2 knots
 - (D) 4.7 knots

If choice A is selected set score to 1.

7. At 1016 your position is LAT 41°07.6'N, LONG 71°38.5'W. At 1116 your position is LAT 41°01.4'N, LONG 71°29.4'W. What was the course made good between the two positions?
- (A) 140°T
 - (B) 135°T
 - (C) 143°T
 - (D) 132°T

If choice D is selected set score to 1.

8. You are on course 056° per standard magnetic compass when you sight Block Island North Light in line with the Block Island Aero Beacon bearing 193° per standard magnetic compass. Based on this information which of the following should you do?
- (A) know the compass error is 4°E
 - (B) swing your vessel to check for deviation
 - (C) know the deviation table is correct for that heading
 - (D) use 3°W deviation on bearings of 193°psc

If choice C is selected set score to 1.

9. You are on course 302° per standard magnetic compass when you take the following bearings:

Little Gull Island Light 283° psc

Race Rock Light 311° psc

Latimer Reef Light 027° psc

What is your position?

- (A) LAT $41^\circ 12.4'N$, LONG $71^\circ 57.9'W$
- (B) LAT $41^\circ 12.4'N$, LONG $71^\circ 57.4'W$
- (C) LAT $41^\circ 12.2'N$, LONG $71^\circ 57.6'W$
- (D) LAT $41^\circ 12.6'N$, LONG $71^\circ 57.6'W$

If choice D is selected set score to 1.

10. At 1103 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 8.2 knots?

- (A) 1254
- (B) 1259
- (C) 1310
- (D) 1249

If choice C is selected set score to 1.