

U.S.C.G. Merchant Marine Exam

Master or Mate Less than 200 Gross Registered Tons

Q153 Chart 12354TR

(Sample Examination)

Choose the best answer to the following Multiple Choice Questions.

The following questions are to be answered by plotting on chart 12354TR, Long 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 14° W

DEVIATION TABLE

| <u>HDG.MAG.</u> | <u>DEVIATION</u> |
|-----------------|------------------|
| 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. At 1018 your position is LAT 41°14.4'N, LONG 72°07.2'W. At 1036 your vessels position is LAT 41°13.1'N, LONG 72°16.1'W. What was your true course and speed made good?
- (A) 065° at 25.5 knots
 - (B) 259° at 22.6 knots
 - (C) 079° at 22.8 knots
 - (D) 245° at 23.1 knots

If choice B is selected set score to 1.

2. You are planning to anchor in Orient Harbor at LAT 41°07.9'N, LONG 72°18.5'W. What type of bottom should you expect?
- (A) Soft
 - (B) Stiff
 - (C) Sticky
 - (D) Streaky

If choice A is selected set score to 1.

3. Your present position is LAT 41°05.5'N, LONG 72°38.0'W. Assuming that there is no set and drift, what course must you steer per standard magnetic compass (psc) to arrive at a position 5 miles due south of Saybrook Breakwater Light?
- (A) 066°psc
 - (B) 077°psc
 - (C) 089°psc
 - (D) 080°psc

If choice D is selected set score to 1.

4. You are on course 087° per standard magnetic compass (psc) when you take the following bearings:
Falkner Island Light - 022.0°psc
Horton Point Light - 111.5°psc
Mt. Sinai Breakwater Light - 254.0°psc

What is your position?

- (A) LAT 41°13.6'N, LONG 72°46.6'W
- (B) LAT 41°06.8'N, LONG 72°40.7'W
- (C) LAT 41°10.5'N, LONG 72°40.5'W
- (D) LAT 41°07.0'N, LONG 72°44.5'W

If choice B is selected set score to 1.

5. Your engines are making turns for 8 knots and a northerly wind is causing 3° of leeway. There is a current of 220°T at 1.5 knots. What is the course to steer between Branford Reef Light and Faulkner Island Light?
- (A) 095°T
 - (B) 102°T
 - (C) 108°T
 - (D) 084°T

If choice D is selected set score to 1.

6. At 1815 your position is LAT 41°05.5'N, LONG 72°47.3'W. You are making turns for 12.6 knots. What is your ETA at Plum Island Mid Channel Buoy PI (LAT 41°13.3'N, LONG 72°10.8'W)?
- (A) 2019
 - (B) 2028
 - (C) 2032
 - (D) 2038

If choice C is selected set score to 1.

7. Your vessel is steady on a heading of 310° per standard magnetic compass when you sight Stratford Point Light and Igor I. Sikorsky Airport Aero Beacon in line dead ahead. What does this information indicate?
- (A) the existing deviation table is correct for this heading
 - (B) the variation is 18°W for this area
 - (C) the compass error is 10°W
 - (D) the deviation is 1°E

If choice C is selected set score to 1.

8. At 2245 your GPS position is LAT $41^\circ 01.75'\text{N}$, LONG $72^\circ 48.40'\text{W}$. You are steering course 086° per standard magnetic compass at a speed of 6.0 knots. At 2400 you fix your position by plotting several compass bearings on nearby known fixed objects. These result in a position of LAT $41^\circ 04.20'\text{N}$, LONG $72^\circ 38.85'\text{W}$. What were your set and drift?
- (A) 162°T at .2 knot
 - (B) 007°T at .4 knot
 - (C) 180°T at .4 knot
 - (D) 339°T at .5 knot

If choice B is selected set score to 1.

9. NOAA Weather Broadcasts for the New London area may be received by turning your radio to which of the following frequencies?
- (A) 162.350 MHz
 - (B) 162.475 MHz
 - (C) 162.400 MHz
 - (D) 162.550 MHz

If choice D is selected set score to 1.

10. What is the maximum speed permitted in the Main Entrance Channel to Port Jefferson Harbor?
- (A) 7 mph
 - (B) 5 mph
 - (C) 12 mph
 - (D) 3 mph

If choice C is selected set score to 1.