

## 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 12354 TR, 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**

<b><i>Magnetic Heading</i></b>	<b><i>Deviation</i></b>
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 maximum speed permitted in Clinton Harbor?

- A. 10 mph
- B. 8 mph
- C. 6 mph
- D. 12 mph

Correct answer: C

2. What course should you steer by your standard magnetic compass (psc), between New Haven Light and Stratford Pt. Light, if the set and drift of the current are 345°T at 3.0 knots, and a northerly wind will cause 1° of leeway? Your engines are making turns for 18.0 knots.

- A. 264.0°psc
- B. 247.0°psc
- C. 266.5°psc
- D. 245.0°psc

Correct answer: B

3. What does the chart symbol depicted at LAT 40°58.5'N, LONG 72°43.4'W indicate?

- A. wreck with only its mast visible
- B. light ship
- C. wreck showing a portion of the hull above the sounding datum
- D. abandoned lighthouse

Correct answer: C

4. At 2115 your position is LAT 41°14.4'N, LONG 72°07.2'W. At 0015 your position is LAT 41°03.3'N, LONG 72°37.9'W. What was your true course made good?

- A. 259°T
- B. 062°T
- C. 245°T
- D. 076°T

Correct answer: C

5. Your vessel is steady on a heading of 160° per standard magnetic compass when you sight Southwest Ledge Light and New Haven Outer Channel Range Rear Light in line dead astern. What is the deviation of the compass based on this observation?

- A. 5°W
- B. 2°E
- C. 5°E
- D. 2°W

Correct answer: B

6. 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 midway between New Haven Harbor Channel buoys #1 and #2?

- A. 309°psc
- B. 319°psc
- C. 137°psc
- D. 315°psc

Correct answer: D

7. Your vessel has become disabled and is dead in the water. Your GPS set fixes your position at LAT 41°12.1'N, LONG 72°43.5'W. You decide to anchor at this position. Which type of bottom should you expect?

- A. Blue mud and gray sand
- B. Hard sand and rocks
- C. Soft mud and shell
- D. Soft clay and sand

Correct answer: C

8. At 1825 your GPS position is LAT 41°04.9'N, LONG 72°42.1'W. You are on course 085° per standard magnetic compass at a speed of 10 knots. At 1910 your GPS position is 1-mile due south of Twenty-Eight Foot Shoal Lighted Buoy. What were your set and drift?
- A. 051°T at 2.1 knots
  - B. 054°T at 2.8 knots
  - C. 227°T at 2.5 knots
  - D. 233°T at 2.9 knots

Correct answer: B

9. 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°06.8'N, LONG 72°40.7'W
- B. LAT 41°07.0'N, LONG 72°44.5'W
- C. LAT 41°10.5'N, LONG 72°40.5'W
- D. LAT 41°13.6'N, LONG 72°46.6'W

Correct answer: A

10. 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. 2028
  - B. 2032
  - C. 2038
  - D. 2019

Correct answer: B