U.S.C.G. Merchant Marine Exam

Mate Less than 500-1600 Gross Registered Tons

Q140 Chart 13205TR

(Sample Examination)

Choose the best answer to the following Multiple Choice Questions.

1. The following questions are based on Chart 13205TR, Block Island Sound, and the supporting publications.

Your draft is 18 feet (5.5 meters)
Your height of eye is 20 feet (6.1 meters)
Gyro error is 3°W
Variation is 15°W

"Per standard magnetic compass" is abbreviated "psc"
"Per gyrocompass" is abbreviated "pgc"

DEVIATION TABLE

Magnetic Heading	Deviation
000°	1.5°E
030°	2.5°W
060°	2.5°W
090°	2.0°W
120°	1.0°W
150°	0.5°W
180°	0.0°
210°	1.0°E
240°	1.5°E
270°	2.0°E
300°	1.0°E
330°	0.5°W

At 0630, Buoy "PI" is close abeam on the starboard side.
You are steering 078°T and are headed directly toward Race Rock Light.
At 0654, Little Gull Island Light is bearing 210°pgc and Race Rock Light is bearing 075°pgc.

What is your 0654 position?

- ○ (A) LAT 41°19.0'N, LONG 72°05.2'W
- ● (B) LAT 41°14.0'N, LONG 72°05.3'W
- ○ (C) LAT 41°14.4'N, LONG 71°54.6'W
- ○ (D) LAT 41°14.2'N, LONG 72°06.8'W

If choice B is selected set score to 1.

2. What was the course made good from 0630 to 0654?

- ○ (A) 090°T
- ○ (B) 078°T
- ● (C) 082°T
- ○ (D) 086°T

If choice C is selected set score to 1.

3. What course should you steer by the standard magnetic compass in order to maintain a heading of 081°pgc?

- ○ (A) 090°psc
- ○ (B) 062°psc
- ● (C) 095°psc
- ○ (D) 080°psc

If choice C is selected set score to 1.

4. At 0705, you change course to 096°T. At this time, Race Rock Light is bearing 000°T at 0.35 mile. You are now governed by which Navigation Rules?

- ● (A) COLREGS
- ○ (B) Local Pilot Rules
- ○ (C) Inland Rules
- ○ (D) Coastal Fishery Rules

If choice A is selected set score to 1.

5. At 0728, Race Rock Light is bearing 282°T at 3.8 miles, and the closest point on Fishers Island has a radar range of 2.1 miles. What speed have you been making since you changed course at 0705?

- ● (A) 9.6 knots
- ○ (B) 10.8 knots
- ○ (C) 9.1 knots
- ○ (D) 11.2 knots

If choice A is selected set score to 1.

6. At 0727, the cupola on Fishers Island is in line with Latimer Reef Light bearing 024°pgc. Based on this information what is the gyro error?

- ● (A) 3°W
- ○ (B) 0°
- ○ (C) 1°E
- ○ (D) 2°E

If choice A is selected set score to 1.

7. At 0748, you take the following bearings:
   Watch Hill Point Light bearing 026.5°pgc
   Race Rock Light bearing 275.5°pgc

   What is the approximate depth of water under the keel at this position?

   - (A) 112 feet (34.1 meters)
   - (B) 175 feet (53.3 meters)
   - (C) 325 feet (99.1 meters)
   - (D) 130 feet (39.6 meters)

   If choice A is selected set score to 1.

8. At 0748, you change course to 160°T, speed 10 knots. At what time will you cross the 120-foot curve the first time?

   - (A) 0808
   - (B) 0754
   - (C) 0804
   - (D) 0800

   If choice B is selected set score to 1.

9. At 0815, Montauk Pt. Light House is bearing 172°T, Shagwong Pt. has a radar range of 4.5 miles. If the engine was making turns for 10 knots, what was the current since 0748?

   - (A) Set 220°T, drift 1.6 knots
   - (B) Set 040°T, drift 0.7 knots
   - (C) Set 040°T, drift 1.6 knots
   - (D) Set 220°T, drift 0.7 knots

   If choice A is selected set score to 1.

10. Which action should you take to compensate for the above current?

    - (A) Slow to 8.5 knots.
    - (B) Alter your course to the right.
    - (C) Continue on the same course and speed.
    - (D) Alter your course to the left.

    If choice D is selected set score to 1.

11. At 0815, visibility is excellent and you can see Montauk Point. Montauk Point Light is _____.

- (A) shown from a brown tower
- (B) equipped with a fog diaphone
- (C) lighted 24 hours
- (D) is 79 feet (24.1 meters) high

If choice C is selected set score to 1.

12. At 0815, you change course to 079°T. To compensate for a southerly wind, you estimate a 3° leeway is necessary. Which course should you steer per standard magnetic compass to make good 079°T?

- (A) 095°psc
- (B) 099°psc
- (C) 093°psc
- (D) 090°psc

If choice B is selected set score to 1.

13. At 0839, Montauk Pt. Light is bearing 205°T at a radar distance of 6.6 miles. What is your speed made good from your 0815 position?

- (A) 9.2 knots
- (B) 8.2 knots
- (C) 10.0 knots
- (D) 10.5 knots

If choice A is selected set score to 1.

14. The area between Block Island and Montauk Point is bounded by dashed magenta lines. What does this represent?

- (A) fish trap area
- (B) submerged cable area
- (C) naval exercise area
- (D) restricted navigation area

If choice B is selected set score to 1.

15. Which chart should you use to enter Great Salt Pond?

- (A) 13207
- (B) 13205
- (C) 13204
- (D) 13217

If choice D is selected set score to 1.