

## U.S.C.G. Merchant Marine Exam

### Master of Unlimited Tonnage

Q305 Chart 13205TR

(Sample Examination)

**Choose the best answer to the following Multiple-Choice Questions.**

1. The luminous range of a light takes into account which factor?

- A. The glare from background lighting
- B. The elevation of the light
- C. The existing visibility conditions
- D. The observer's height of eye

Correct answer: C

2. The following questions are to be answered using Chart 13205 TR, Block Island Sound, and supporting publications.

Your vessel is on a course of  $090^{\circ}T$  at a speed of 14 knots.  
Your draft is 37 feet and your height of eye is 56 feet.

At 1705:

Race Rock Light bears  $099^{\circ}True$   
Orient Point Light bears  $176^{\circ}True$   
Bartlett Reef Light bears  $083^{\circ}True$

What is your vessel's position?

- A. LAT  $41^{\circ}15.9'N$ , LONG  $72^{\circ}14.0'W$
- B. LAT  $41^{\circ}15.4'N$ , LONG  $72^{\circ}16.6'W$
- C. LAT  $41^{\circ}15.0'N$ , LONG  $72^{\circ}14.3'W$
- D. LAT  $41^{\circ}16.4'N$ , LONG  $72^{\circ}14.2'W$

Correct answer: A

3. If there is no set or drift, at what time would you be abeam of Bartlett Reef Light?

- A. 1729
- B. 1724
- C. 1719
- D. 1734

Correct answer: B

4. At 1718, Bartlett Reef Light bears  $050^{\circ}T$  at a distance of 1.5 miles. From this position, you change course to  $128^{\circ}T$ . At 1750 Race Rock Light bears  $336^{\circ}T$ , Little Gull Island Light bears  $285^{\circ}T$ , and Montauk Point Light bears  $134^{\circ}T$ . What were the set and drift of the current you encountered since 1718?

- A.  $065^{\circ}T$  at 0.9 knots
- B.  $245^{\circ}T$  at 1.7 knots
- C.  $065^{\circ}T$  at 1.7 knots
- D.  $245^{\circ}T$  at 0.9 knots

Correct answer: C

5. If your fathometer is set on fathoms, what should your fathometer read at 1750?
- A. 8.5 fathoms
  - B. 14.7 fathoms
  - C. 10.2 fathoms
  - D. 51.0 fathoms

Correct answer: A

6. At 1756 you determined your vessel's position to be  $41^{\circ}10.4'N$ ,  $71^{\circ}59.2'W$ . From this position, you wish to change course to head for a point 5 miles west of Block Island North Light. With a reported set of  $050^{\circ}T$ , a drift of 2.0 knots and turning RPMs for 14 knots, which course should you steer to make good your desired course?
- A.  $075^{\circ}T$
  - B.  $070^{\circ}T$
  - C.  $080^{\circ}T$
  - D.  $085^{\circ}T$

Correct answer: C

7. At 1844 Watch Hill Point bears  $323^{\circ}T$  and Block Island North Light bears  $084^{\circ}T$ . Which statement is TRUE?
- A. You are governed by the Inland Rules of the Road.
  - B. You are to the left (north) of your desired course line.
  - C. Your fathometer reads 97 feet
  - D. Your vessel is approximately 8.7 miles off Sandy Point.

Correct answer: D

8. From your 1850 position of  $41^{\circ}12.8'N$ ,  $71^{\circ}44.1'W$ , you change course to  $060^{\circ}T$ . If you make the course good, what will be your predicted distance off Point Judith Light when the Light bears  $015^{\circ}T$ ?
- A. 1.2 miles
  - B. 2.7 miles
  - C. 3.4 miles
  - D. 1.9 miles

Correct answer: B

9. You are making good a course of  $060^{\circ}T$  at a speed of 13.5 knots. At 1855 Block Island North Light bears  $086^{\circ}T$ ; at 1910 Block Island North Light bears  $108^{\circ}T$ ; and at 1930 the same light bears  $184^{\circ}T$ . Which statement is TRUE about your 1930 running fix position?
- A. The wavy magenta lines to the north through east of your position are designated lobstering areas.
  - B. You are inside the 20 fathom curve.
  - C. The bottom is mud, sand, and clay.
  - D. You are on the edge of a cable area.

Correct answer: D

Q305-Chart 13205TR  
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Illustrations: 0

10. At 1942 Point Judith bears  $030^{\circ}T$  and has a range of 3.6 miles and Sandy Point has a range of 5.3 miles. What was your speed made good from your 1850 position?

- A. 13.0 knots
- B. 14.0 knots
- C. 13.5 knots
- D. 12.5 knots

Correct answer: A