

Demo PDF file. This file includes questions: 10 from 70. Full version of file looks the same as demo, but full version includes all questions. You may download file with all questions by link on bottom of this page

Q398 - Navigation Problems: Chart Plot

1. The following questions (1-10) are based on the Army Corps of Engineers Mississippi River Maps (Cairo to the Gulf) and the Light List. AHP = Above Head of Passes LMR = Lower Mississippi River UMR = Upper Mississippi River OHR = Ohio River ACOE = Army Corps of Engineers At 0815, on the 16 of April, you depart the Exxon Refinery Docks (mile 232 AHP) bound for the fleeting area at Sycamore Chute Light (740.3 AHP). The horizontal clearance of the center span on the Baton Rouge RR and Highway 190 Bridge is _____.

- 500
- 575
- 443
- **623**

Note:

The horizontal clearance of the center span on the Baton Rouge RR and Highway 190 Bridge is 623 feet, as indicated on the Army Corps of Engineers Mississippi River chart.

2. You are at mile 230.0 AHP and see on the map a large rectangle outlined with a broken line . This indicates a _____.

- revetment
- dredge material
- dike
- **fleeting area**

Note:

A large rectangle outlined with a broken line on Western Rivers charts designates a fleeting area, a zone where barges are temporarily moored.

3. As you pass Solitude Lt. (mile 249.0 AHP) which dayboard would you see?

- **Green diamond**
- Green square
- Red diamond
- Red triangle

Note:

Solitude Light at mile 249.0 AHP is charted with a green diamond dayboard, indicating a river crossing mark. This distinguishes it from standard green square or red triangle dayboards used for lateral markings, and confirms the correct answer.

4. Which of the following statements regarding buoys on the Mississippi River is TRUE?

- Buoy positions on the chart are exact.
- The buoys do not shift positions due to permanent moorings.
- The buoys are maintained on station year round.
- **Buoys should be given as wide a berth as possible in passing.**

Note:

Buoys on the Mississippi River are floating aids that can shift position; therefore, a wide berth should always be maintained when passing to avoid hazards and account for potential inaccuracies in charted locations.

5. What is indicated by the two light gray shaded areas that cross the river above False River Lt. (mile 251.0 AHP)?

- Aerial cable crossings
- Bridge construction
- Ferry crossings
- **Utility crossings**

Note:

The light gray shaded areas indicate utility crossings, which are charted areas spanning the river and representing pipelines, cables, or combined utility corridors. These shaded bands alert mariners to areas requiring caution for anchoring, dredging, or grounding, and are distinguished from symbols representing aerial cable crossings, bridge construction, or ferry routes.

6. What are the light characteristics of Greenwood Light (mile 288.6 AHP)?

- Fixed red light
- 1 red flash every 4 seconds
- 2 white flashes every 4 seconds
- **2 red flashes every 5 seconds**

Note:

Greenwood Light (mile 288.6 AHP) exhibits two red flashes every five seconds, as indicated by the Light List notation Fl(2)R 5s. Accurate interpretation of Light List entries, including color, flash pattern, and period, is essential for navigation and exam success; always verify characteristics in the current U.S. Coast Guard Light List and applicable charts.

7. After passing Wilkinson Lt. you see a flashing amber light on the right descending bank ahead. The flashing light indicates that you should _____.

- keep as close to the right descending bank as safety permits
- slow down due to dredging operations
- stay in the deepest water
- **keep as close to the left descending bank as safety permits**

Note:

A flashing amber light on the right descending bank indicates a crossing signal, requiring vessels to favor the left descending bank as safety permits. This signal is specific to Western Rivers and directs navigation away from the bank where the light is located.

8. At which of the following times would you be able to listen to lower Mississippi River conditions on VHF Channel 22?

- 1100 hours
- 1200 hours
- 0900 hours
- **1300 hours**

Note:

Lower Mississippi River conditions are broadcast on VHF Channel 22 at 1300 hours, as specified in the exam reference materials. The other listed times do not correspond to the published schedule, making 1300 hours the correct answer.

9. At 0645, on the 17th of April, you pass Hole in the Wall Lt. (mile 373.4 AHP). What has been your average speed since departing the Exxon Refinery?

- **6.3 mph**
- 7.3 mph
- 8.8 mph
- 6.8 mph

Note:

The average speed is calculated by dividing the distance between the Exxon Refinery and Hole in the Wall Light by the elapsed time. Using the provided chart data and times, this calculation results in a speed of 6.3 mph.

10. Your company wants to know at what time you will be arriving at the fleeting area at Sycamore Chute Light (mile 740.3 AHP) in Memphis, TN. You are making turns for 9.0 mph and you estimate the average current at 2.2 mph. Figuring the distance and time from Hole in the Wall Lt. (mile 373.4 AHP), what is your ETA at Sycamore Chute Lt.?

- 2333, April 19th
- 1645, April 19th
- **1242, April 19th**
- 2242, April 19th

Note:

The correct ETA is 1242, April 19th. The distance of 366.9 river miles is traversed at an effective speed of 6.8 mph, resulting in a travel time of approximately 54 hours, which, when added to the departure time, yields the ETA.
