

**Demo PDF file. This file includes questions: 10 from 225. 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**

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## **Q397 - Navigation General: Rivers**

**1. Which type of daymark is used to mark the port side of the channel when entering from sea?**

- **Green square**
- Black and white diamond
- Red and white octagon
- Red triangle

Note:

*Green square daymarks indicate the port side of a channel when entering from sea, according to the U.S. lateral buoyage system (IALA Region B).*

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**2. A towboat has the same draft as the barges it is pushing ahead. If the distance from the stern of the towboat to the head of the tow is 800 feet, where is the approximate location of the pivot point of the unit?**

- 600 feet from the head of the tow
- 400 feet from the head of the tow
- **250 feet from the head of the tow**
- At the head of the tow

Note:

*The pivot point of a towboat and barge unit with equal draft, moving ahead, is approximately one-third of the total length from the head of the tow, which is about 250 feet in this scenario.*

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**3. What does the abbreviation L.W.R.P. on the navigation maps mean?**

- Least water river plane
- Low winter runoff point
- **Low water reference plane**
- Land wall reference point

Note:

*L.W.R.P. on navigation charts represents the Low Water Reference Plane, a fixed vertical datum used to measure water depths and clearances. This datum is not related to seasonal conditions, physical structures, or river hydrology; it serves as a baseline for chart measurements.*

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**4. Advection fog is most commonly caused by \_\_\_\_\_.**

- **warm moist air being blown over a colder surface**
- saturation of cold air by rain
- air being warmed above the dew point
- a rapid cooling of the air near the surface of the Earth at night

Note:

*Advection fog occurs when warm, moist air moves horizontally over a colder surface, cooling the air to its dew point and causing condensation. This process, defined by the term 'advection,' distinguishes it from fog formed by rain saturation, warming above the dew point, or nighttime radiational cooling.*

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## 5. Which agency maintains federal aids to navigation?

- Corps of Engineers
- Maritime Administration
- National Ocean Service
- **Coast Guard**

Note:

*The U.S. Coast Guard maintains federal aids to navigation; this responsibility is defined by regulations and distinguishes it from agencies focused on navigation projects, maritime commerce, or hydrographic surveys.*

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## 6. When is an air mass termed "warm"?

- If it originated in a high-pressure area
- **If the ground over which it moves is cooler than the air**
- If it originated in a low-pressure area
- If the mass is above 70°F

Note:

*An air mass is classified as warm when its temperature is higher than that of the surface it traverses, a distinction based on relative temperature rather than origin or absolute temperature.*

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## 7. Which is a characteristic of anticyclones?

- High winds and cloudiness
- Overcast skies
- **Dry, fair weather**
- Gustiness and continuous precipitation

Note:

*Anticyclones are high-pressure systems characterized by sinking air, which inhibits cloud formation and precipitation, resulting in dry, fair weather.*

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## 8. What should you apply to a fathometer reading to determine the depth of water?

- Subtract the sea water correction.
- Add the sea water correction.
- Subtract the draft of the vessel.
- **Add the draft of the vessel.**

Note:

*A fathometer measures depth below the transducer, which is typically the keel. To determine the total water depth, add the vessel's draft, the vertical distance from the waterline to the keel, to the fathometer reading.*

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## 9. You are approaching a drawbridge and must pass through during a scheduled closure period. What signal should you sound?

- Three prolonged blasts
- Three short blasts, two prolonged blasts
- Two prolonged, two short blasts
- **Five short blasts**

Note:

*To pass through a drawbridge during a scheduled closure, sound five short, rapid blasts to signal danger and gain immediate attention, as per Inland Navigation Rule 34(d).*

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**10. You are approaching an open drawbridge and sound the proper signal. You receive no acknowledgment from the bridge. Which action should you take?**

- Hold in the channel as a vessel is closing the bridge from the other direction.
- Resound the opening signal and do not pass through the bridge until signals have been exchanged.
- Approach under full control to a position no closer than 400 yards from the bridge and await a signal from the bridge.
- **Approach with caution and proceed through the open draw.**

Note:

*Since the drawbridge is already open and clear, proceed cautiously and under control, verifying specific local regulations.*

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