

**Demo PDF file. This file includes questions: 10 from 256. 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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## **Q182 - Navigation General: Near Coastal**

**1. A magnetic compass card is marked in how many degrees?**

- 90
- 180
- **360**
- 400

Note:

*A magnetic compass card represents a full circle, which is measured in 360 degrees. Therefore, the correct answer is 360.*

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**2. At 0000 you fix your position and plot a new DR track line. At 0200 you again fix your position, and it is 0.5 mile east of your DR. Which statement is TRUE?**

- The current is westerly at 0.5 knot.
- The current cannot be determined.
- **The drift is 0.25 knot.**
- You must increase speed to compensate for the current.

Note:

*The drift is calculated by dividing the distance between the DR and fix by the elapsed time: 0.5 nautical miles in 2 hours equals 0.25 knots.*

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**3. According to Buys Ballot's law, when an observer in the Northern Hemisphere experiences a northwest wind, where is the center of low pressure located?**

- **Northeast of the observer**
- Northwest of the observer
- South-southeast of the observer
- West-southwest of the observer

Note:

*According to Buys Ballot's law in the Northern Hemisphere, a northwest wind indicates the low-pressure center is located northeast of the observer; this is because facing the wind's direction (southeast) places the low-pressure center to the observer's left.*

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**4. According to Buys Ballot's Law, when an observer in the Southern Hemisphere experiences a northwest wind, where is the center of the low pressure located?**

- **South-Southwest**
- East-Northeast
- East-Southeast
- West-Southwest

Note:

*According to Buys Ballot's Law in the Southern Hemisphere, a northwest wind indicates that the low-pressure center is located south-southwest of the observer.*

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## 5. What will act to dissipate fog?

- Advection of warm air over a colder surface
- **Downslope motion of an air mass along a coast**
- Rain that is warmer than air
- Upwelling cold water

Note:

*Downslope motion warms air adiabatically, decreasing relative humidity and causing fog to evaporate.*

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## 6. When adjusting a magnetic compass for error, which is TRUE concerning the deviation table?

- Construct the deviation table before the quadrantal correctors are placed on the compass
- Construct the deviation table after correcting for variation
- **Construct the table after adjusting the fore-and-aft permanent magnets**
- Construct the deviation table before correcting for any deviation

Note:

*The deviation table is created after adjusting the fore-and-aft permanent magnets to accurately record the remaining deviation after mechanical adjustments.*

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## 7. What agency of the U.S. Government issues charts of U.S. waters and Coast Pilots?

- National Imagery and Mapping Agency
- U.S. Coast Guard
- **National Oceanic and Atmospheric Administration**
- U.S. Naval Observatory

Note:

*The National Oceanic and Atmospheric Administration (NOAA) issues nautical charts of U.S. waters and the U.S. Coast Pilot publications through its Office of Coast Survey.*

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## 8. Which aid is NOT marked on a chart with a magenta circle?

- Radar transponder beacon
- Radio beacon
- Radar station
- **Aero light**

Note:

*Aero lights are not marked with a magenta circle on nautical charts; this symbol is reserved for radio and radar-based aids to navigation such as radar transponder beacons, radio beacons, and radar stations.*

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## 9. An air mass that has moved down from Canada would most likely have which symbols?

- **cPk**
- cTw
- mTk
- cTk

Note:

*cPk correctly identifies a cold, dry continental polar air mass originating in Canada and colder than the surface it overruns.*

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#### 10. Which is TRUE of an alternating light?

- It is used as a replacement for another light
- It shows a light with varying lengths of the lighted period
- It marks an alternate lesser used channel
- **It shows a light that changes color**

Note:

*An alternating light is defined as a light that displays different colors in a regular sequence. Therefore, the correct answer is that it shows a light that changes color.*

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