

24. You are attempting to locate your position relative to a hurricane in the Northern Hemisphere. Where is your vessel located if the wind direction remains steady, but with diminishing velocity?
- A. In the right semicircle
 - B. On the storm track ahead of the center
 - C. On the storm track behind the center
 - D. In the left semicircle

Correct answer: C

25. Which characteristic and color will a preferred-channel buoy show?
- A. A composite group-flashing (2 + 1) white light
 - B. A composite group-flashing (2 + 1) red or green light
 - C. A group-occluding white light
 - D. A white light whose characteristic is Morse (A)

Correct answer: B

26. Where do you find the semidiameter correction to be used to correct sextant observations of the stars?
- A. It is included in the altitude corrections inside the front cover of the Nautical Almanac.
 - B. Table 25 in Bowditch contains the correction.
 - C. A correction of -0.5' should be applied to all star sights.
 - D. No semidiameter correction is used.

Correct answer: D

27. What is the light phase characteristic of a lighted isolated-danger mark?
- A. Long flashing
 - B. Group flashing
 - C. Interrupted quick flashing
 - D. Very quick flashing

Correct answer: B

28. Which describes the visible range marked on charts for lights?
- A. The maximum distance the light may be seen restricted by the height of the light and the curvature of the earth
 - B. The minimum distance at which the light may be seen with infinite visibility
 - C. The maximum distance at which a light may be seen in clear weather with 10 miles visibility
 - D. The minimum distance at which the light may be seen based on a 12 mile distance to visible horizon

Correct answer: C

29. A great circle crosses the equator at 17°W. It will also cross the equator at what other longitude?
- A. 17°E
 - B. 173°W
 - C. 117°W
 - D. 163°E

Correct answer: D

57. You swung ship and compared the magnetic compass against the gyrocompass to find deviation. Gyro error is 2°W. The variation is 8°W. Find the deviation on a gyro heading of 058°.

NP-0119

HEADING	
PSC	PGC
030.5°	024°
061.5°	054°
092.0°	084°
122.5°	114°
152.0°	144°
181.0°	174°
210.0°	204°
239.5°	234°
269.0°	264°
298.0°	294°
327.5°	324°
358.5°	354°

- A. 1.5°W
- B. 1.0°W
- C. 1.0°E
- D. 0.5°W

Correct answer: A

58. In the U.S. Aids to Navigation System, lateral aids as seen entering from seaward will display lights with which characteristic?
- A. Occulting
 - B. Flashing
 - C. Quick Flashing
 - D. All of the above

Correct answer: D

59. Which type of GPS receiver has at least four channels to process information from several satellites simultaneously?
- A. Multiplex
 - B. Sequential
 - C. Continuous
 - D. None of the above

Correct answer: C

60. You are heading in a northerly direction when you come across an easterly current. Your vessel will respond in which manner?
- A. The vessel will be pushed to port
 - B. The vessel will be pushed to starboard
 - C. The vessel will decrease in engine speed
 - D. The vessel will remain on course

Correct answer: B

61. Which is TRUE why Tropical cyclones do not form within 5° of the Equator?
- A. The region is too humid
 - B. It is too hot in that region
 - C. Negligible Coriolis force in the region
 - D. There are no fronts in that area

Correct answer: C

62. Two beacons form a range in the direction of 221.5°T. The range is seen in line from your vessel bearing 223° per gyrocompass. The variation in the area is 4°E. What is the error of your gyrocompass?
- A. 1.5°W
 - B. 2.5°W
 - C. 5.5°W
 - D. 2.5°E

Correct answer: A

63. Your vessel is located at position I on the weather map in illustration D013NG below. You should experience which weather condition?
- A. Overcast skies with rising temperature
 - B. Steady precipitation
 - C. Clear skies with warm temperatures
 - D. Thundershowers

Correct answer: D

64. What is the major problem with taking high altitude sun observations?
- A. It is difficult to establish the point where the sextant is vertical to the horizon.
 - B. Rapidly changing altitudes make it difficult to get an accurate altitude.
 - C. The tables are not as accurate due to inherent errors in the spherical triangle at high altitudes.
 - D. Possible errors due to unusual refraction may exist.

Correct answer: A

65. Which is TRUE of the tides in Boston Harbor?
- A. The tides have a greater range than the tides in Gulf Coast ports
 - B. The tides have their variations caused by the changing declination of the Moon
 - C. The tides are diurnal in nature
 - D. All of the above

Correct answer: A

66. You are on course $180^{\circ}T$ and take a relative bearing of a lighthouse of 225° . What is the true bearing of the lighthouse?
- A. 045°
 - B. 135°
 - C. 180°
 - D. 270°

Correct answer: A

67. Barometers are calibrated at which standard temperature?
- A. $0^{\circ}F$
 - B. $32^{\circ}F$
 - C. $60^{\circ}F$
 - D. $70^{\circ}F$

Correct answer: B

68. You are on course $303^{\circ}T$. To check the speed of your vessel you should observe a celestial body on which bearing?
- A. 123°
 - B. 213°
 - C. 000°
 - D. 090°

Correct answer: A

69. If you observe a rapid fall of barometric pressure, which action should you take?
- A. Call the Coast Guard to verify the change
 - B. Know that the barometer is not working properly
 - C. Prepare for an onset of stormy weather with strong winds
 - D. Contact the NWS or a local radio station

Correct answer: C

70. What weather change accompanies the passage of a cold front in the Northern Hemisphere?
- A. A line of cumulonimbus clouds
 - B. Steady precipitation, gradually increasing in intensity
 - C. Steady dropping of barometric pressure
 - D. Wind shift from northeast clockwise to southwest

Correct answer: A