1. If navigation lights are installed, an anchor light must be permanently installed.
   a. True
   b. False

2. 12 volt (nominal) navigation lights with metal fixtures may be grounded (negative lead) to the fixture frame if
   a. The fixture be mounted on a conductive surface
   b. The lights are tested according to 16.Ap.B.1 and labeled “watertight”
   c. There is no polarity identified or observed
   d. Only the negative lead is attached and polarity is identified

3. Prior to determining the static floating position:
   a. The datum water line must be established
   b. The potable water tanks must be full
   c. All factory installed equipment and options be installed
   d. Portable gear must be on board

4. A 40 ft. vessel has separate side lights and an 18” tall all-around light mounted on the flybridge on the boat's centerline. Which of the following is correct?
   a. This is not an acceptable lighting configuration
   b. The boat may operate in inland waters only
   c. The boat may operate in inland or international waters, if sailing
   d. The boat may operate in inland or international waters

5. Lights installed above the sheer line shall
   a. Be watertight
   b. Contain fixed and non-reusable gaskets
   c. Be weathertight
   d. Contain combination sidelights

6. A combination side light on a 20 ft vessel
   a. Must project to 90 degrees abaft the port and starboard beam
   b. Must project to 22.5 degrees abaft the port and starboard beam
   c. Must project a horizontal arc of visibility totaling 235 degrees
   d. Must project a horizontal arc of visibility totaling 112.5 degrees
7. To classify as weathertight, internal critical components must not come in contact with water when subjected to
   a. Continuous water spray for 15 minutes
   b. Water pressure of 15 psi (100kPa) for 15 minutes
   c. Water pressure of 15 psi (100kPa) for 5 minutes
   d. Continuous water spray for 5 minutes

8. Navigation lights shall be installed:
   a. To prevent damage in any situation
   b. To prevent reflected glare from fog or mist
   c. To prevent reflection off a vessel’s structure
   d. To prevent reflection from other vessels

9. The maximum allowable voltage drop used for sizing conductors for navigation lights is:
   a. 10 percent
   b. 10 percent if lights contain the marking “A-16”
   c. 3 percent
   d. 3 percent for boats over 12 meters

10. Navigation lights:
    a. Shall be designed so that the bulb(s) can be replaced without using tools
    b. Shall be provided with a means to assist in the proper alignment of the light
    c. Shall be designed with drain openings to allow water to drain from the interior of the fixture
    d. Shall have interchangeable lenses

11. An anchor light on a vessel
    a. Less then 20 meters shall be rated to 2 NM
    b. Less then 20 meters shall be rated to 1 NM
    c. Less then 12 meters shall be rated to 1 NM
    d. Greater than 12 meters and less than 20 meters shall be rated to 3 NM
12. A masthead light on a 40 ft power driven vessel must be:

   a. At least 8 ft above the waterline  
   b. At least 8 feet above the gunwale  
   c. At least 2.5 ft above the gunwale  
   d. At least 2.5 meters above the waterline

13. The lamp specified by the navigation light manufacture shall be tested

   a. At 93% of the of the intended nominal system voltage  
   b. At 100% of the of the intended nominal system voltage  
   c. At 107% of the of the intended nominal system voltage  
   d. At a determined range around the nominal system voltage

14. All navigation light markings must be tested to

   a. UL 1114  
   b. UL 1104  
   c. UL 1004  
   d. UL 4011

15. All vessels may use either 72 COLREGS or “Inland Rules” navigation lights on navigable waters of the US.

   a. True  
   b. False

16. For the purposes of NMMA certification, which of the following is not true?

   a. All NMMA certified builders must provide NMMA with the type of navigation lights being installed  
   b. All NMMA certified boats must be equipped with navigation lights  
   c. All NMMA certified boats must use Type Accepted navigation lights  
   d. All NMMA certified boats will be inspected to insure compliance with A-16

17. Under ABYC, which statement is true?

   a. All vessels under 12 meters must follow the “Inland Rules”  
   b. A anchor light need not be permanently installed  
   c. The sidelight may never be installed below the sheerline  
   d. A towing light is a all-around yellow light
18. A 40ft vessel is required to be equipped with a bell
   a. True
   b. False

19. Sound signal devices for all vessels over 12 meters:
   a. Can utilize fluorinated hydrocarbon gases
   b. Shall be tested at 105% of the intended nominal voltage
   c. Shall not be more than 5dB below the prescribed sound pressure within +/- 45° of the axis
   d. Shall be mounted with their sound pressure level directed straight ahead

20. Each sound signal appliance shall contain:
   a. The manufacturer’s name (or identifying mark)
   b. The manufacturer’s name (or identifying mark), and A-23
   c. A-23
   d. USCG or 72 COLREGS

21. The minimum sound intensity of a bell shall be:
   a. 98 dB(A) at one meter
   b. 105 dB(A) at one meter
   c. 110 dB(A) at one meter
   d. 120 dB(A) at one meter

22. On a vessel five meters or less, used only in U.S. inland waterways, the horn does not have any frequency requirements.
   a. True
   b. False

23. A sound signaling appliance that is mounted below the sheerline of the vessel must:
   a. Be labeled “weatherproof”
   b. Be labeled “waterproof”
   c. Withstand exposure to salt spray without failure when tested according to ASTM B117
   d. A sound signaling appliance can not be mounted below the sheerline
24. The sound signaling appliance or smallest container in which they are packaged shall be labeled with the correct application by vessel length and applicable waters.

   a. True
   b. False

25. Which of the following statements is NOT true?

   a. The manufacture shall provide instructions for the installation, maintenance, and operation of the sound signal appliance
   b. External parts of the sound signal appliance shall have no sharp edges
   c. Under Inland Rules a bell may be substituted where a whistle is required
   d. Percussion bells shall be made of corrosion resistant materials