Chains, Ropes and Slings Quiz II

Source: National Safety Council

1. Splices made in synthetic fiber rope can develop nearly the full strength of the rope.

a. true\*

b. false

2. If a natural fiber rope is overloaded, its inside fibers will break into short lengths in proportion to the degree of overload.

a. true\*

b. false

3. A kink in a wire rope can be removed without creating a weak spot.

a. true

b. false\*

4. Wire rope fittings are important for safety because they can develop up to 100% of the breaking strength of the rope.

a. true\*

b. false

5. Even if they are used with the recommended chain size, sling hooks, rings, and oblong links cannot offer a safety factor greater than that of alloy steel chain itself.

a. true

b. false\*

6. Which of the following types of fiber rope offer the best uniform strength and service?

a. Manila\*

b. polyester

c. henequen

d. polypropylene

7. If a rope is being used under ordinary conditions, it should be inspected every \_\_\_\_\_\_.

a. week

b. 10 days

c. two weeks

d. 30 days\*

8. The arc of support in the groove of a sheave should measure \_\_\_\_\_\_\_\_\_.

a. 115 degrees

b. 135 degrees

c. 150 degrees\*

d. 175 degrees

9. The safety of a rope sling depends on the \_\_\_\_\_\_\_\_\_\_.

a. type of hitch used

b. kind of rope used

c. method of fastening the rope to the fittings

d. all the above\*

10. Whenever the throat opening of a hook on a chain sling exceeds \_\_\_\_\_ of the normal opening, the hook should be replaced.

a. 10%

b. 15%\*

c. 20%

d. 25%

11. Which of the following is true of synthetic web slings?

a. They are generally not repaired.\*

b. They are proof tested to a minimum of 200% of their rated load capacity.

c. They are highly resistant to abrasion.

d. They can be used at temperatures up to 200 F.

12. The breaking strengths of sisal rope are generally lower than those of Manila.

a. true\*

b. false

13. The more wires per strand, the more abrasion and crush resistant a wire rope is.

a. true

b. false\*

14. Cutting a short section off the socket end of a wire rope changes the positions of critical wear points.

a. true\*

b. false

15. OSHA does not prohibit the use of reconditioned fiber rope slings.

a. true

b. false\*

16. Centering a load in the bowl of a hook prevents point loading on the hook.

a. true\*

b. false

17. Which of the following is not characteristic of nylon rope?

a. Its strength is affected by drying oils, such as linseed oil.

b. It is well suited to shock loading.

c. It starts to burn at 300 F.\*

d. It is highly resistant to mildew and rot.

18. The best general-purpose rope, especially for critical uses, is made from \_\_\_\_\_\_\_\_\_\_.

a. polyethylene

b. polyester\*

c. nylon

d. polypropylene

19. There should be at least \_\_\_\_\_ dead turns on a smooth-faced drum when a wire rope is fully unwound during normal operation.

a. 1

b. 2\*

c. 3

d. 4

20. The single most important rigging precaution is to know \_\_\_\_\_\_\_\_\_\_\_\_.

a. which lifting device to use

b. which rigging gear to use

c. the distance to be traveled

d. the weight of the load\*

21. Which of the following slings is best to use when flexibility, high strength, and resistance to rotation are essential?

a. braided slings\*

b. cable-laid slings

c. fiber rope slings

d. strand-laid slings

22. Which of the following is true of alloy steel chains?

a. They should not be used in situations where failure of the chain would result in serious property damage.

b. They are suitable for high-temperature operations.\*

c. They should never be used for slings.

d. Their tensile strength decreases in proportion to their hardness.