1. What is SWL?
   a. Single weight of load
   b. Second weakest location
   c. Working load limit
   d. Abbreviation for swivel

2. What is the relation to breaking strength of rigging to determine the Working load limit?
   a. Diameter of wire rope used
   b. Width of fiber sling used
   c. Safety factor based on purpose
   d. All of the above

3. What sling configuration provides double the rigging capacity?
   a. Vertical hitch
   b. Choker hitch
   c. Basket hitch
   d. Wrapped hitch

4. What sling configuration reduces your slings capacity by 25%?
   a. Vertical hitch
   b. Choker hitch
   c. Basket hitch
   d. Wrapped hitch

5. When choking a load using a shackle in the eye you must ensure
   a. The bow of the shackle is in the eye of your rigging
   b. The pin of your shackle is in the eye of your rigging
   c. The pin of your shackle is on the running end of your rigging
d. The pin of your shackle must be locked when in use

6. Properly installed U-Bolt clips retain approximately what strength of your wire rope?
   a. 50%
   b. 70%
   c. 80%
   d. 90%

7. Zink Spelter socket retains how much of your ropes strength?
   a. 70%
   b. 80%
   c. 90%
   d. 100%

8. Running your wire rope over a sharp bend can reduce the ropes strength by what percent?
   a. 50%
   b. 40%
   c. 30%
   d. 20%

9. Hand splicing an eye in wire rope can retain what strength for pulling with?
   a. 25%
   b. 45%
   c. 65%
   d. 85%

10. The safety factor associated with wire rope for general rigging is
    a. 4:1
    b. 5:1
11. The safety factor associated when hoisting personnel is
a. 5:1
b. 6-8:1
c. 10:1
d. 20:1

12. What do I need on my material in order to be able to lift with a vertical hitch?
   a. Multiple pick points
   b. Shackle
   c. Eye bolt
   d. Softeners

13. What would be an appropriate sling configuration for a smooth load using a 2 leg bridle?
   a. Choker hitch
   b. Vertical hitch
   c. Basket hitched
   d. Double wrapped choker

14. When rigging with multiple legs what sling angle is most preferable?
   a. 180 degrees
   b. 90 degrees
   c. 60 degrees
   d. 45 degrees

15. What sling angle requires being cautioned as critical?
   a. 90 degrees
b. 60 degrees
c. 45 degrees
d. 30 degrees

16. Approximately how much tension is each leg of a 2-leg bridle experiencing when lifting a 2000lb load with a 30 degree angle?
   a. 500lbs
   b. 1000lbs
   c. 1500lbs
   d. 2000lbs

17. What is the main purpose of a snatch block
   a. To create mechanical advantage
   b. To hoist smaller loads
   c. To change direction of line
   d. To aid in crane operations

18. Properly installed wedge sockets will retain how much of your ropes strength?
   a. 50%
   b. 70%
   c. 80%
   d. 100%

19. Using a reeved block and tackle with 9 parts of line what is your mechanical advantage?
   a. 3:1
   b. 4.5:1
   c. 9:1
   d. 18:1
20. On a 9 part system how many sheaves would you use?
   a. 1
   b. 2
   c. 8
   d. 9

21. Using a 9 part system to hoist the load 5 feet, how many feet would I have to pull through my blocks?
   a. 5
   b. 9
   c. 10
   d. 45

22. Using a 9 part block and tackle system, how much force would be required in order to hold a 4000lb load stationary from my lead line?
   a. 4000lbs
   b. 444lbs
   c. 889lbs
   d. 211lbs

23. What is wire rope made from?
   a. Improved rope steel
   b. Alloy wire rope steel
   c. Improved plow steel
   d. Improved Warrington steel

24. Compared to regular lay wire rope, lang lay wire rope would have:
   a. More abrasion resistance
   b. Less abrasion resistance
   c. Less flexibility
   d. Less tendency to rotate
25. What does pre-formed wire rope refer to?
   a. Rope made from individual wires with an oval cross section
   b. Rope pre-formed with a curve for a better fit on the drum
   c. Rope made from individual wires formed into a helix before twisting into rope
   d. Rope with a special cross section to fit an elliptical sheave

26. When over winding a right lay rope, the rope would:
   a. Wind over the drum, starting on the left side
   b. Wind under the drum, starting from the left side
   c. Wind over the drum, starting on the right side
   d. Wind under the drum, starting on the right side

27. An IWRC wire rope would have:
   a. An inner wound rope core
   b. An indelible wax coating for resistance to corrosion
   c. An independent wire rope core
   d. An independent wire round cover

28. What is the accepted safety factor for general rigging?
   a. 2:1
   b. 3:1
   c. 5:1
   d. 10:1

29. The recommended eye type for wire rope slings is a:
   a. Tucked eye with pressed metal sleeve
   b. Fold back eye with pressed metal sleeve
   c. Clipped eye
   d. Flemish eye with pressed metal sleeve
30. What is the recommended angle for hoisting with bridle slings?
   a. 30 degrees
   b. 45 degrees
   c. 60 degrees
   d. 90 degrees
Answer Key

1. C
2. C
3. C
4. B
5. B
6. C
7. D
8. A
9. D
10. B
11. C
12. C
13. D
14. C
15. D
16. D
17. C
18. B
19. C
20. D
21. D
22. B
23. C
24. A
25. C
26. A
27. C
28. C
29. A
30. C