

Question Bank (MCQs) – Rigger's Syllabus

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1. The employee that is responsible for balancing and securing the load to the hook, and will direct during the lift is called –
 - a. Hoist Operator
 - b. Rigger**
 - c. Crane Driver
 - d. Works Manager

2. Day-to-Day inspections should include:
 - a. inspect the wire rope for abnormalities and/or damage.
 - b. inspect the block and hook for any cracks or damage.
 - c. visually inspect limit switches for abnormalities and test for proper functionality.
 - d. all of above.**

3. Wire rope inspections include checking of –
 - a. waviness
 - b. basket / lantern cage deformation (birdcage)
 - c. core protrusion / distortion
 - d. all of above.**

4. A portion /section of a rope is a section of the rope that has lost its circular form is called-
 - a. core protrusion
 - b. flattened portion**
 - c. kink
 - d. none of above

5. Standard signal/Communication for moving Hoist upwards is -
 - a. with forearm vertical, fore finger pointing up, move hand in small horizontal circle.**
 - b. with arm extended downward, fore finger pointing down, move hand in small horizontal circle.
 - c. with shouting up and up.
 - d. none of above.

6. Standard signal/Communication for moving Hoist downwards is -
 - a. with forearm vertical, fore finger pointing up, move hand in small horizontal circle.
 - b. with arm extended downward, fore finger pointing down, move hand in small horizontal circle.**
 - c. with shouting up and up.
 - d. none of above.

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7. Standard Signal for Emergency stop is –

- a. with forearm vertical, fore finger pointing up, move hand in small horizontal circle.
- b. with arm extended downward, fore finger pointing down, move hand in small horizontal circle.
- c. **both arms extended, palms down, move arms back and forth horizontally.**
- d. arm extended, palm down, move are back and forth horizontally.

8. Standard Signal to Move slowly is-

- a. with arm extended downward, fore finger pointing down, move hand in small horizontal circle.
- b. both arms extended, palms down, move arms back and forth horizontally.
- c. arm extended, palm down, move are back and forth horizontally.
- d. **use one hand to give any motion signal and place other hand motionless in front of hand giving the motion signal.**

9. Important factor (s) while attaching the load is-

- a. use appropriate sling/hardware (work load limit)
- b. sling angle
- c. center of gravity alignment
- d. **all of above.**

10. Safe Practices for Rigger include -

- a. maintain line-of-sight with the operator.
- b. stop the operation if comprehension is lost.
- c. plan in advance where the load is going.
- d. **all of above.**

11. Lifting Factors while handling the load include –

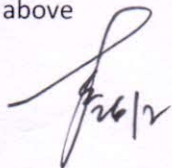
- a. size, weight, and center of gravity of the load.
- b. the rated capacity of the sling.
- c. the number of sling legs & angle the sling makes with the horizontal line..
- d. **all of above.**

12. Types of Rigging & Slings include –

- a. wire rope & fibre rope.
- b. synthetic web slings.
- c. cargo nets
- d. **all of above**

13. The use of two slings, each supporting the same amount of weight and having the same support angle results in

- a. unequal distribution of the load weight.
- b. **equal distribution of the load weight.**
- c. depends upon type of slings.
- d. none of the above



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14. How tight do you tighten a screw pin shackle?

- a. hand tight and back off $\frac{1}{4}$ turn.
- b. hand tight and back off $\frac{1}{2}$ turn.
- c. **minimum of hand tight with pin fully engaged.**
- d. none of the above

15. Protecting slings are used for –

- a. protecting the rigger.
- b. **protecting slings against sharp edges.**
- c. protecting the load.
- d. none of above.

16. Maximum wear limitation of hooks and shackles is?

- a. 5%.
- b. **10%**
- c. 15%.
- d. 20%

17. Which washer is used for locking?

- a. Plain.
- b. **Locking.**
- c. Spring.
- d. Round.

18. The beam which is fixed at one end and free at other end is called –

- a. Simple supported beam
- b. Fixed beam
- c. Overhanging beam
- d. **Cantilever beam**

19. Which of the following does not affect the capacity of a wire rope sling?

- a. sling angle
- b. **thimbles in sling's eyes.**
- c. D/d Ratio
- d. none of the above.

20. If a load is to be slid on flat concrete floor, which of the following provide least friction.

- a. Aluminium
- b. Rubber
- c. **Wood**
- d. Steel.

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21. Which angle from horizontal will produce the greatest tension in a sling leg.
- a. 75 Degree.
 - b. 60 Degree.
 - c. 45 Degree.
 - d. **30 Degree.**
22. What is the hand signal to raise the load with crane.
- a. **thumbs up.**
 - b. index finger up.
 - c. little finger up.
 - d. two hands up.
23. A fibre wire rope will have breaking strength _____ than independent material wire rope.
- a. more
 - b. **less**
 - c. same
 - d. none of above
24. A rigger while lifting a load.
- a. **recognizes centre of gravity to keep it stable.**
 - b. need not to recognize centre of gravity.
 - c. only concentrate on wire size.
 - d. none of the above.
25. How does a Rigger signals to other crew members.
- a. by hand signals.
 - b. by whistling.
 - c. by flags.
 - d. **all of above.**
26. Rigger uses chain slings to lift the heavy load.
- a. no
 - b. sometimes.
 - c. **yes**
 - d. none of the above.
27. A rigger must not convey signals to crane driver for lifting load.
- a. correct
 - b. **incorrect.**
 - c. sometimes.
 - d. a & c above

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28. A Rigger while rigging must follow safety norms/requirements for safety.

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- a. in-correct.
- b. never
- c. **correct**
- d. a & b above

29. A Rigger dismantles, clean & store rigging equipments

- a. **yes.**
- b. no need
- c. not safe to do.
- d. all of above.

30. Material of chain slings in DMW

- a. stainless steel.
- b. **alloy steel.**
- c. copper.
- d. brass.

31. Material of wire rope slings in DMW

- a. Stainless Steel.
- b. **Alloy Steel.**
- c. Copper.
- d. Brass.

32. Wire rope sling is manufactured from

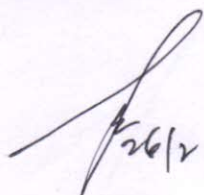
- a. Jute.
- b. Pipes.
- c. **Wires.**
- d. Balls.

33. Chain slings is manufactured from

- a. Pipes
- b. Wires
- c. Plates
- d. **Metallic rings**

34. Rigger inspects chain slings before use daily for

- a. wear out
- b. cracks
- c. breakage
- d. **all of the above**


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35. Rigger inspects wire ropes before use daily for

- a. breakage of wire
- b. kinking
- c. wear out
- d. **all of the above**

36. Should crane operator follow the signal of Rigger?

- a. never.
- b. sometimes.
- c. **always.**
- d. none of the above

37. Safe working limit of slings

- a. **defines the maximum load that should be lifted with the sling.**
- b. is the limit at which slings are tested.
- c. is decided by the rigger.
- d. none of the above.

38. Types of slings used in DMW are.

- a. Chain slings
- b. Wire rope slings.
- c. Polyester web slings.
- d. **All of the above.**

39. Should sling be protected against sharp edges.

- a. **must be protected.**
- b. no need to protect.
- c. sling is strong enough & need no protection.
- d. none of the above.

40. Can kinked wire rope be used.

- a. yes.
- b. **no.**
- c. sometimes
- d. a & c above.

41. Wire rope sling is rejected if,

- a. diameter reduced to 99%.
- b. diameter reduced to 98%.
- c. diameter reduced to 97%.
- d. **diameter reduced to 90%.**

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