

U.S.C.G. Merchant Marine Exam

Master of Unlimited Tonnage

Q302 Deck General

(Sample Examination)

Choose the best answer to the following Multiple-Choice Questions.

1. What does the boom indicator on a crane indicate?

- A. The direction of the boom
- B. The lifting capacity of the boom
- C. The angle of the boom
- D. The length of the boom

Correct answer: C

2. The Immigration and Naturalization Service is concerned with which document on a vessel making preliminary entry into a U.S. port from a foreign port?

- A. Curio List
- B. Shipping Articles
- C. Certified Cargo Manifest
- D. Crew List form I-418

Correct answer: D

3. How is Argon classified?

- A. Flammable liquid
- B. Corrosive
- C. Nonflammable gas
- D. Flammable gas

Correct answer: C

4. Which commodity would be regulated by subchapter D, Rules and Regulations for Tank Vessels?

- A. Benzene
- B. Asphalt
- C. Vinyl Chloride
- D. All of the above

Correct answer: B

5. Which space(s) on your cargo vessel must have a fire detection system?

- A. Any compartment containing explosives
- B. Any compartment adjacent to one containing explosives
- C. Enclosed spaces which are "specially suitable for vehicles"
- D. All of the above

Correct answer: D

6. Which statement is TRUE concerning the vessel's slipstream?

- A. The propeller gives it a helical motion.
- B. Its velocity is the same as that of the wake.
- C. It has no effect on the steering of the vessel.
- D. It has no effect on the rudder when the helm is amidships.

Correct answer: A

7. A vessel proceeding to London, England, from New York makes an unscheduled call at the port of Hamilton, Bermuda. What term is used to denote the voluntary departure from the usual course?
- A. Deviation
 - B. Liberty
 - C. Alteration
 - D. Unscheduled stop

Correct answer: A

8. A vessel traveling down a narrow channel, especially if the draft is nearly equal to the depth of the water, may set off the nearer side. What is the name of this effect?
- A. Squatting
 - B. Smelling the bottom
 - C. Bank suction
 - D. Bank cushion

Correct answer: D

9. What does it mean to "shore up" the main deck for the stowage of deck cargo?
- A. Weld pad eyes on deck in proper position to secure the cargo
 - B. Strengthen the main deck by placing pillars underneath it in the tween decks
 - C. Package the cargo in wooden crates so it will not damage the deck
 - D. Distribute the weight of the cargo by placing fore-and-aft planks on the main deck

Correct answer: B

10. Your vessel is being assisted through an ice field in Thunder Bay by the Canadian Coast Guard icebreaker Alexander Henry. The starboard lookout reports that the icebreaker has run up the code flag "N" (November). Which action should you take?
- A. Reverse your engines
 - B. Stop your engines
 - C. Reduce speed
 - D. Stop your vessel instantly

Correct answer: B

11. If you are guilty of failure to properly perform your duties as Master of Uninspected Towing Vessels, which of the following actions may NOT be taken?
- A. Revocation of your Merchant Mariner Credential
 - B. Suspension of your Merchant Mariner Credential
 - C. Issuance of a letter of warning
 - D. A fine placed against your Merchant Mariner Credential

Correct answer: D

12. Which statement is TRUE when a pilot is embarked on a vessel?

- A. The pilot relieves the officer of the watch
- B. The pilot relieves the Master of his duties
- C. The pilot is a specialist hired for his or her local navigational knowledge
- D. The pilot is solely responsible for the safe navigation of the vessel

Correct answer: C

13. The effect known as "bank cushion" acts in which of the following ways on a single-screw vessel proceeding along a narrow channel?

- A. It heels the vessel toward the bank.
- B. It forces the bow away from the bank.
- C. It forces the stern away from the bank.
- D. It forces the entire vessel away from the bank.

Correct answer: B

14. While transiting a channel your vessel's bow swings away from the bank. What is the term for this effect?

- A. Bank cushion
- B. Yaw
- C. Bank suction
- D. Sheer force

Correct answer: A

15. The master or individual in charge of a vessel prepares a certificate of discharge for each mariner being discharged from the vessel. Which party receives the original copy?

- A. Shipping Company
- B. Officer In Charge, Marine Inspection (OCMI)
- C. National Maritime Center
- D. Mariner

Correct answer: D

16. What is the proper first aid for LPG in the eye?

- A. Flush the eye with plenty of water.
- B. Rub the eye area clean.
- C. Keep the eyelid close.
- D. Apply an ice pack to the eye.

Correct answer: A

17. You are on a vessel that carries liquefied gases in bulk. The person on watch is required to have what information about the cargo easily accessible?

- A. Exact quantity on board
- B. Name and address of consignee
- C. Firefighting procedures
- D. Port of loading

Correct answer: C

18. What does item "K" refer to in illustration D045DG of a 30-ton pedestal crane?

- A. Manual slewing cables
- B. Rider block taglines
- C. Cargo snaking cables
- D. Jib luffing cables

Correct answer: B

19. Your vessel is proceeding through a narrow channel. What actions can you take to avoid any sudden sheers of the vessel?

- A. Reduce speed and stay to the outer limits of the channel
- B. Put your offshore anchor well in the water
- C. Reduce speed and stay in the deepest part of the channel
- D. Increase speed and stay to the outer limits of the channel

Correct answer: C

20. While anchoring your vessel, when is the best time to let go the anchor?

- A. When the vessel is dead in the water
- B. When the vessel is moving fast ahead over the ground
- C. When the vessel is moving slowly astern over the ground
- D. When the vessel is moving fast astern over the ground

Correct answer: C

21. How long is a credential issued by the U.S. Coast Guard for apprentice mate (steersman) of Towing Vessels valid for?

- A. 2 years and must be renewed
- B. 3 years and must be renewed
- C. 5 years and must be renewed
- D. None of the above

Correct answer: C

22. Which document shows the minimum required crew a vessel must have to navigate from one port in the United States to another?

- A. Certificate of Inspection
- B. Register
- C. Articles
- D. Crew List

Correct answer: A

23. What is NOT true regarding a Lloyd's Open Form (LOF) Salvage Agreement?

- A. The agreement between vessels can be made via VHF
- B. The LOF is subject to the law of the country the two parties agree upon
- C. There is a bonus to the salvage award if environmental casualty is averted
- D. If salvage is not successful, vessel owes salvor nothing

Correct answer: B

- 24.** You are loading 465,000 barrels of cargo oil. At 0900 you find that you have loaded 207,000 barrels. At 1030 you find that you have loaded 223,000 barrels. If you continue loading at the same rate, you will finish at approximately _____.
- A. 2100 that night
 - B. 0730 the next day
 - C. 0910 the next day
 - D. 1215 the next day

Correct answer: C

- 25.** You are signing on a crew. When they present their Merchant Mariner Credential, you should suspect a fraudulent document if it has which endorsement listed on it?
- A. Bosun
 - B. Steward's Department (F.H.)
 - C. Any unlicensed rating in the deck department including AB
 - D. Certificate of Registry

Correct answer: A

- 26.** The boom indicator tells the operator at what angle the boom is compared to the _____.
- A. horizontal position of the load being lifted
 - B. horizontal position of the boom
 - C. vertical position of the boom
 - D. vertical position of the load being lifted

Correct answer: B

- 27.** Which action has a tendency to happen to a vessel proceeding along the bank of a river or channel with steep banks?
- A. The vessel will sheer away from the bank
 - B. The vessel will increase speed
 - C. The vessel will hug the bank
 - D. The vessel will continue in line with the bank

Correct answer: A

- 28.** You are on a 30,000 DWT tankship engaged in trade to another country signatory to MARPOL 73/78. Which statement is TRUE?
- A. The Certificate of Inspection is prima facie evidence of compliance with MARPOL 73/78.
 - B. The IOPP Certificate is valid for 5 years.
 - C. AN IOPP Certificate is renewed at each inspection for certification.
 - D. An IOPP Certificate is invalid if the ship carries cargoes outside the classes authorized thereon.

Correct answer: B

29. An annual inspection of a tank vessel shall be made between which of the following months while the Certificate of Inspection is valid?

- A. 8 - 12 months
- B. 8 - 13 months
- C. 9 - 15 months
- D. 12 - 16 months

Correct answer: C

30. Who issues the certificate of loading required by each vessel carrying grain in bulk?

- A. American Bureau of Shipping
- B. owner or charterer of the vessel
- C. National Cargo Bureau
- D. shipper of the cargo

Correct answer: C

31. When does a vessel which is being assisted by an icebreaker, display a flag hoist consisting of the code numeral "4"?

- A. When the vessel stops
- B. When it becomes icebound
- C. Any time the speed begins to drop
- D. If it receives ice damage

Correct answer: B

32. As a rule, ships of most configurations, when drifting in calm water with negligible current, will lie in which orientation?

- A. The bow will be to the wind
- B. With the wind on the quarter
- C. The beam will be to the wind
- D. The stern will be to the wind

Correct answer: C

33. Which is TRUE for the connection facilities utilized for the international shore connection aboard the vessel?

- A. There shall be a facility on each level of the accommodation space
- B. The facilities shall be available on each side of the vessel
- C. The facilities shall be on the main deck only
- D. The facilities shall be as close as possible to the house

Correct answer: B

34. During oil transfer operations, who is responsible for ensuring that the posted transfer procedures are followed?

- A. The senior able seaman
- B. The oiler
- C. The tankerman
- D. The designated person in charge

Correct answer: D

35. On a vessel proceeding from a very cold to a warm climate with a cargo of a non-hygroscopic nature in the holds, which is TRUE?

- A. The possibility of any sweat problem, either cargo or ship, is remote.
- B. Danger of heavy ship sweat exists; constant and vigorous ventilation is required.
- C. There is little danger of ship's sweat, slight possibility of cargo sweat; moderate ventilation is needed.
- D. There is danger of heavy cargo sweat if outside air is introduced by ventilation.

Correct answer: D

36. What is one of the main purposes of dunnage?

- A. To support weakened bulkheads
- B. To provide ventilation and drainage for cargo
- C. To act as ballast for light vessels
- D. To secure the tarpaulins in place

Correct answer: B

37. Firefighting equipment requirements for a particular vessel may be found on which document?

- A. Certificate of Inspection
- B. Certificate of Registry
- C. Classification Certificate
- D. Certificate of Seaworthiness

Correct answer: A

38. Which of the signals listed is required to be displayed during the day while bunkering?

- A. A red flag
- B. A red and yellow flag
- C. A yellow flag
- D. A red light

Correct answer: A

39. If you are bunkering and you close off one tank in the line of tanks being filled, what happens to the rate of flow to other open tanks on the same line?

- A. The rate of flow decreases to the open tanks
- B. The rate of flow increases to the open tanks
- C. The rate of flow remains constant to the open tanks
- D. The rate of flow stops to the open tanks

Correct answer: B

40. U.S. regulations require all tankships of 150 GT and above and all other ships of 400 GT and above, to prepare and maintain which of the following?

- A. A USCG approved vapor recovery procedures plan
- B. A USCG approved oil discharge plan
- C. A USCG approved synthetic plastic discharge plan
- D. A USCG approved shipboard oil pollution emergency plan

Correct answer: D

41. Which is TRUE before a Master relieves a Pilot of the conn?

- A. The Master should foresee any danger to the vessel on the present course
- B. The Master must first request the Pilot to take corrective action
- C. The Master should agree to sign a release of liability form
- D. The vessel must be in extremis

Correct answer: A

42. Which is the BEST holding ground for conventional anchors?

- A. Shale
- B. Hard mud
- C. Very soft mud
- D. Rock

Correct answer: B

43. Which term describes the process of lifting the anchor from the bottom?

- A. Walking the anchor
- B. Broaching the anchor
- C. Weighing the anchor
- D. Shifting the anchor

Correct answer: C

44. You are on a multiple-product chemical tanker and will carry cargoes of isophorone, ethylenediamine, and creosote. Which of the following is TRUE?

- A. All of these cargoes are compatible.
- B. Isophorone is incompatible with ethylenediamine but may be stowed adjacent to creosote.
- C. Ethylenediamine is compatible with isophorone, but both are incompatible with creosote.
- D. All of these cargoes are incompatible.

Correct answer: A

45. Ship's officers should check every cargo compartment after it is filled with bulk grain to ensure which of the following?

- A. All lighting circuits are energized
- B. The heavier grade is in the lower hold
- C. The correct grade of cargo has been loaded
- D. All spaces are filled

Correct answer: D

46. You are signing on a crew. You can determine the minimum number and qualifications of the crew that you are required to carry by consulting which document?

- A. Fo'c'sle card
- B. Certificate of Inspection
- C. Crew list
- D. Articles of Agreement

Correct answer: B

47. Your enrolled vessel is bound from Baltimore, MD, to Norfolk, VA, via Chesapeake Bay. Which statement about the required Pilot is TRUE?

- A. The Pilot must be credentialed by Virginia and Maryland.
- B. The Pilot must be credentialed by Virginia, Maryland and the Coast Guard.
- C. The Pilot must be credentialed by either Virginia or Maryland.
- D. The Pilot need only be credentialed by the Coast Guard.

Correct answer: D

48. You are docking a vessel. When are the wind and current most favorable in this situation?

- A. When they are both parallel to the pier from ahead
- B. When they are crossing your course, in opposite directions to the other
- C. When they are crossing your course, both in the same direction
- D. When they are both setting you on the pier

Correct answer: A

49. Where may a crewmember find information on the fire and abandon ship stations and his/her assigned duties?

- A. The Certificate of Inspection
- B. The crewman's duty list
- C. The muster list
- D. The shipping articles

Correct answer: C

50. Your vessel is port side to a pier with a spring line led aft from the bow. How will the vessel respond in calm weather, with the engines ahead and hard left rudder?

- A. The bow will slip out and the stern in
- B. Both the bow and stern will move out
- C. Both the bow and stern will move in
- D. The bow will swing in and the stern out

Correct answer: D

51. A synonym for chloroform is _____.

- A. sulfuric chlorohydrin
- B. trichloromethane
- C. chlorine gas
- D. 4-methyl phenol

Correct answer: B

52. Your vessel is going from a warm climate to a cold climate with a hygroscopic cargo. Which statement is TRUE?

- A. There is danger of heavy cargo sweat if you ventilate.
- B. You should ventilate; there is little danger of ship sweat, but a possibility of cargo sweat.
- C. You must ventilate constantly and vigorously to combat ship sweat.
- D. There is little danger of any sweat problem.

Correct answer: C

53. A cargo of 10,000 barrels of gasoline is loaded at a temperature of 90°F, and a cargo temperature of 55°F, is expected on this voyage. It has a coefficient of expansion of .0006. How many barrels would you expect to discharge at your destination?

- A. 9790
- B. 9994
- C. 10210
- D. 10410

Correct answer: A

54. A fire has damaged 20 bales of cotton on a freighter loaded with general cargo. How would this claim be handled?

- A. As a general average claim
- B. As a constructive total loss claim
- C. As a total loss of a part claim
- D. As a particular average claim

Correct answer: D

55. Where should an application for a waiver of any requirements of the regulations for oil transfer operations be submitted?

- A. To the Commandant
- B. To the nearest Coast Guard office
- C. To the District Commander
- D. To the Captain of the Port

Correct answer: D

56. You are on a multiple-product chemical tanker and will carry cargoes of butyric acid, propylene oxide, and octyl alcohol. Which statement is true?

- A. Butyric acid is incompatible with octyl alcohol but not propylene oxide.
- B. Propylene oxide may not be stowed in a tank adjacent to butyric acid.
- C. Octyl alcohol is incompatible with both butyric acid and propylene oxide.
- D. All of these cargoes are compatible.

Correct answer: B

57. You have arrived at your anchorage location. You have put the engines astern prior to letting go the anchor. How will you know when the vessel has stopped making way?

- A. The backwash of the propeller reaches amidships
- B. An azimuth bearing on the beam remains steady
- C. The ship's Doppler log reads zero
- D. All of the above

Correct answer: A

58. In accordance with regulations, ethylene oxide shall be loaded below what temperature?

- A. 90°F
- B. 70°F
- C. 51°F
- D. its flash point

Correct answer: B

59. Which best describes an anchor buoy?

- A. A black ball that is hoisted when the ship anchors
- B. A buoy attached to the scope of an anchor chain
- C. A mark of the number of fathoms in an anchor chain
- D. A buoy attached to the anchor

Correct answer: D

60. What speed do most bow thrusters generally become ineffective?

- A. At any speed astern
- B. Over 1 knot sternway
- C. Over 3 knots headway
- D. At any speed ahead

Correct answer: C

61. Which condition must be met during a stability test on an inspected vessel?

- A. Water under vessel must be deep enough to prevent grounding
- B. All dunnage, tools, and extraneous items are secured
- C. Each tank must be partially full to show it does not leak
- D. The vessel must be moored snugly

Correct answer: A

62. You discharge food waste overboard at sea. You have recorded your vessel's position as required, what other items must be included in the report?

- A. The vessel's latitude and longitude is all that is required
- B. The vessel's latitude, longitude and approximate depth of water
- C. The vessel's latitude, longitude, date and time of the discharge
- D. The vessel's latitude, longitude, course, speed, and a copy of that days noon position slip

Correct answer: C

63. You are loading benzyl chloride and a small quantity spills on deck. According to the Chemical Data Guide, which of the following may be used as a substitute for water for the cleanup procedure?

- A. Sodium bisulfite
- B. Alcohol
- C. Sodium carbonate
- D. Soda ash solution

Correct answer: C

64. Before arriving at the first U.S. port from foreign, you must fill out a Crewman's Landing Permit. Which crewmember(s) require(s) this permit?

- A. Only unlicensed crewmembers
- B. Any nonresident alien crewmembers
- C. All crewmembers
- D. All alien crewmembers

Correct answer: B

65. The possibility of wake damage can be reduced by following which action?

- A. Alternate engine speeds
- B. Apply rudder in both port and starboard directions
- C. Passing close aboard to the moored vessel
- D. Slow down when passing moored vessels

Correct answer: D

66. Which is TRUE for a vessel's Certificate of Documentation?

- A. It may be retained by the owner at the home port OR kept on the vessel
- B. It must be posted under transparent material in the pilothouse
- C. It must be kept on file at the corporate offices of the owner or operator
- D. It must be carried on board

Correct answer: D

67. Why is a VLCC (100,000 DWT+) with a 30,000 Shaft Horsepower Steam Turbine slow to respond to engine movements, and has less stopping power than normal ships?

- A. They have a bigger propeller
- B. They have larger power to weight ratio
- C. They possess smaller propellers
- D. They have smaller power to weight ratio

Correct answer: D

68. Ice concentration is measured in tenths. What concentration range of ice corresponds to "Open Pack"?

- A. < 1 tenth
- B. 1 - 3 tenths
- C. 4 - 6 tenths
- D. 7 - 8 tenths

Correct answer: C

69. A U.S. Coast Guard icebreaker, while escorting ships in ice, has sounded four short and one long blasts on the whistle. What does this indicate?

- A. The vessel is increasing the distance between vessels
- B. The vessel has become icebound, Stop
- C. The vessel is increasing speed; watch for broken ice
- D. The vessel has its engines full astern, stay clear

Correct answer: B

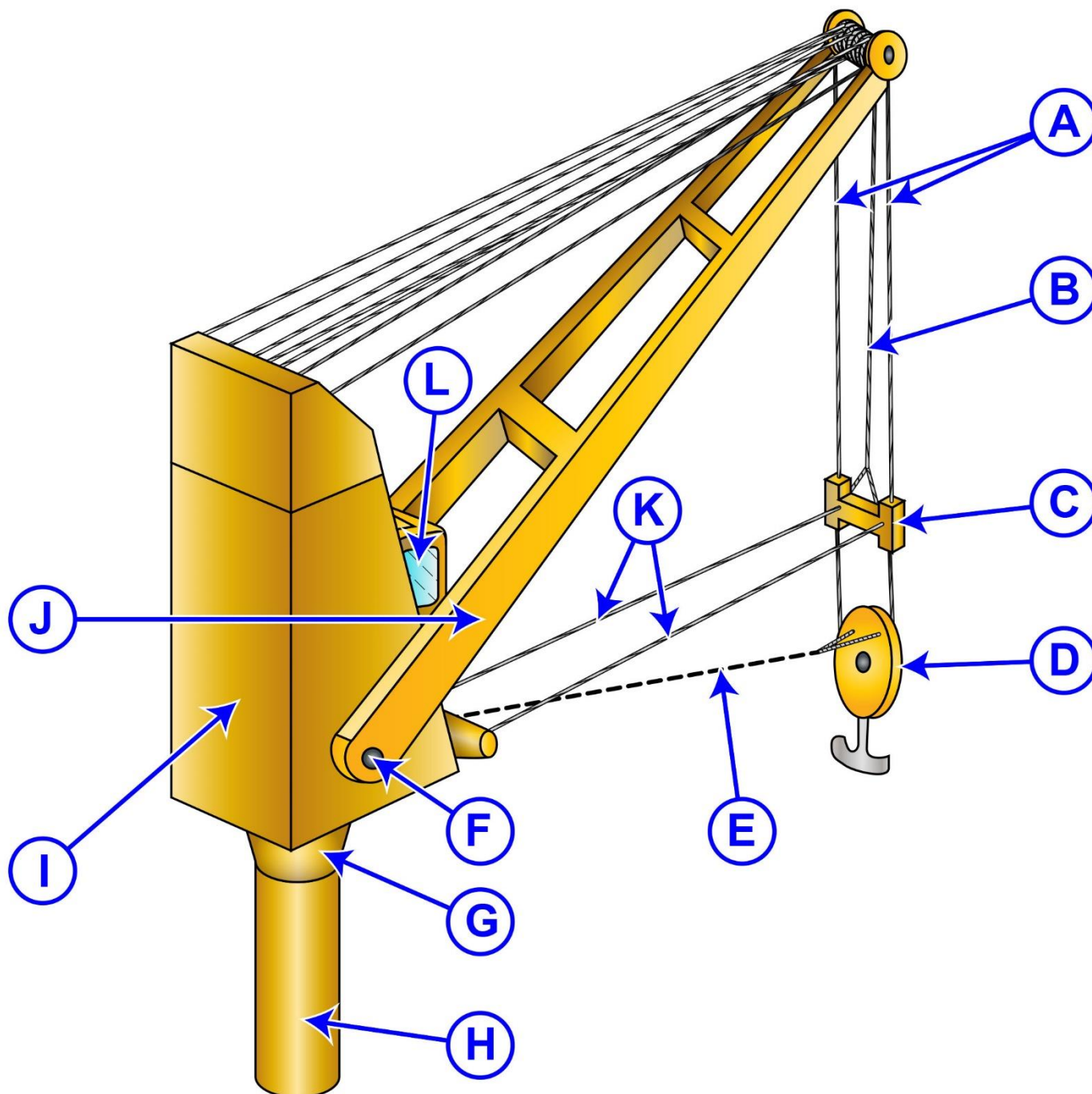
70. Which statement is TRUE when reviewing a Shipboard Oil Pollution Emergency Plan?

- A. Shall be reviewed annually by the owner, with a letter submitted to the Coast Guard within one month of the anniversary date of the plan approval
- B. Shall be reviewed annually by the owner, with a letter submitted six months before the anniversary of the expiration date
- C. Shall be reviewed only once every five years, with a letter submitted six months before the anniversary date of the plan approval
- D. Shall be reviewed, and the entire plan resubmitted for approval once every five years, six months before the expiration date

Correct answer: A



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