

U.S.C.G. Merchant Marine Exam

Master TV to Master Less than 500 Gross Registered Tons
Great Lakes and Inland

Q326 Navigation and Deck General - Deck Safety

(Sample Examination)

Choose the best answer to the following Multiple Choice Questions.

1. A flame screen _____.

- (A) permits vapors to exit but not enter a tank
- (B) prevents the passage of flammable vapors
- (C) prevents inert gas from leaving a tank
- (D) permits the passage of vapor but not of flame

If choice D is selected set score to 1.

2. The Great Lakes Edition of the Notice to Mariners is published _____.

- (A) monthly by the Army Corps of Engineers
- (B) biweekly by the Commandant, U.S. Coast Guard
- (C) weekly by the 9th Coast Guard District
- (D) monthly by the Naval Oceanographic office

If choice C is selected set score to 1.

3. Regulations require that prior to departure on a three-day voyage, the steering gear, whistle, and communications system between the bridge and engine room must be tested prior to departure no earlier than _____.

- (A) 1 hour
- (B) 4 hours
- (C) 8 hours
- (D) 12 hours

If choice D is selected set score to 1.

4. The spin axis of a gyroscope tends to remain fixed in space in the direction in which it is started. How does this gyroscope become north seeking so that it can be used as a compass?

- (A) The rotation of the Earth (Earth rate) automatically aligns the gyroscope with north, except for speed errors
- (B) By taking advantage of the property of gyroscopic inertia
- (C) By starting the compass with the spin axis in a north/south position
- (D) By mechanically or electrically applying forces to precess the gyroscope

If choice D is selected set score to 1.

5. You are signing on a crew. A man presents a Merchant Mariner's Document that you suspect has been tampered with. Which action should you take?
- (A) Confiscate the document and deliver it to the Coast Guard.
 - (B) Sign the man on and notify the Coast Guard at the first U.S. port of call.
 - (C) Refuse to sign the man on until authorized by the Coast Guard.
 - (D) Refuse to sign the man on and notify the FBI of unauthorized use of a federal document.

If choice C is selected set score to 1.

6. A person who sees someone fall overboard should _____.
- (A) run to the radio room to send an emergency message
 - (B) go to the bridge for the distress flares
 - (C) call for help and keep the individual in sight
 - (D) immediately jump in the water to assist the individual

If choice C is selected set score to 1.

7. In ship construction, frame spacing is _____.
- (A) uniform over the length of the vessel, with the exception of the machinery spaces, where it is reduced due to increased stresses
 - (B) uniform over the length of the vessel
 - (C) reduced at the bow and stern
 - (D) greater at the bow and stern

If choice C is selected set score to 1.

8. You are the credentialed Master of a towing vessel operating between New York and Tampa, FL. If you carry four deckhands onboard, how many must be able seamen?
- (A) one
 - (B) two
 - (C) three
 - (D) four

If choice C is selected set score to 1.

9. Deckhands onboard towing vessels shall be divided into 3 watches when on a trip exceeding _____.
- (A) 600 miles
 - (B) 700 miles
 - (C) 800 miles
 - (D) 1000 miles

If choice A is selected set score to 1.

10. A single-screw vessel going ahead tends to turn more rapidly to port because of propeller _____.

- (A) thrust
- (B) sidewise force
- (C) suction current
- (D) discharge current

If choice B is selected set score to 1.

11. In accordance with U.S. regulations, no vessel can come or remain alongside a tank vessel while it is loading A, B, or C grade cargo without permission from whom?

- (A) terminal manager
- (B) officer-in-charge of the vessel which is loading
- (C) USCG captain of the port
- (D) tank ship owner

If choice B is selected set score to 1.

12. For vessels fitted with cargo gear, an initial test of the units under a proof load shall be conducted. Subsequent tests and exams of the same nature shall be carried out at what time interval?

- (A) 1 year
- (B) 3 years
- (C) 4 years
- (D) 5 years

If choice D is selected set score to 1.

13. How can the Coast Guard determine that a crew member is "able to understand any order spoken by the officers"?

- (A) Require that an interpreter be provided
- (B) Require a demonstration by the officer and the crew member
- (C) Require a written test
- (D) All of the above

If choice B is selected set score to 1.

14. The reaction of a gyrocompass to an applied force is known as _____.

- (A) earth rate
- (B) gyroscopic inertia
- (C) gravity effect
- (D) precession

If choice D is selected set score to 1.

15. What is the minimum number of fire pumps required on a cargo vessel of 2,000 GT?

- (A) 1
- (B) 2
- (C) 3
- (D) 4

If choice B is selected set score to 1.

16. As a vessel changes course to starboard, the compass card in a magnetic compass _____.

- (A) turns counterclockwise to port
- (B) remains aligned with compass north
- (C) first turns to starboard then counterclockwise to port
- (D) also turns to starboard

If choice B is selected set score to 1.

17. You are docking an oceangoing single-screw vessel under normal circumstances with a single tug. The tug is usually used to _____.

- (A) push the ship bodily alongside and is tied to the offshore side amidships
- (B) pull the vessel into the slip and is tied to the bow
- (C) control the bow and is tied to the offshore bow
- (D) control the stern and is tied to the stern on the offshore side

If choice C is selected set score to 1.

18. Which of the following statements is TRUE regarding crane operations?

- (A) Radio communications allow the crane operator to disregard the use of hand signals.
- (B) The forward cranes can be operated from the bridge.
- (C) The aft cranes can be operated from the aft steering station.
- (D) The crane operators and signalman must be familiar with the correct hand signals.

If choice D is selected set score to 1.

19. The MOST important feature of the material used for making the binnacle of a standard magnetic compass is that it is _____.

- (A) nonmagnetic
- (B) weatherproof
- (C) capable of being permanently affixed to the vessel
- (D) corrosion resistant

If choice A is selected set score to 1.

20. When selecting the fuel oil tanks for the "burn-out" of bunkers during a voyage consideration of all of the following must be taken with the EXCEPTION of _____.

- (A) flashpoint
- (B) list
- (C) trim
- (D) stability

If choice A is selected set score to 1.

21. Variation in a compass is caused by _____.

- (A) magnetism within the vessel
- (B) worn gears in the compass housing
- (C) lack of oil in the compass bearings
- (D) magnetism from the earth's magnetic field

If choice D is selected set score to 1.

22. The quadrantal spheres are used to _____.

- (A) remove deviation on the intercardinal headings
- (B) compensate for induced magnetism in vertical soft iron
- (C) remove heeling error
- (D) remove deviation on the cardinal compass headings

If choice A is selected set score to 1.

23. The sprocket wheel in a windlass, used for heaving in the anchor, is called a _____.

- (A) capstan
- (B) wildcat
- (C) dog wheel
- (D) fairlead

If choice B is selected set score to 1.

24. You are on a 120,000 DWT loaded bulk carrier. What is the maximum safe docking speed when coming alongside?

- (A) 0.5 foot per second (0.30 knot)
- (B) 0.1 foot per second (0.06 knot)
- (C) 0.75 foot per second (0.44 knot)
- (D) 0.2 foot per second (0.12 knot)

If choice D is selected set score to 1.

25. The letter and number symbols, such as B-II, used to classify portable fire extinguishers indicate the _____.

- (A) extinguishing agent and location aboard vessel
- (B) extinguishing agent and relative size of the extinguisher
- (C) class of fire and size of the extinguisher
- (D) class of fire and location aboard vessel

If choice C is selected set score to 1.

26. Carbon dioxide cylinders which protect machinery spaces, paint lockers and tanks may be located within those spaces when the amount of carbon dioxide does not exceed _____.

- (A) 150 lbs
- (B) 300 lbs
- (C) 450 lbs
- (D) 600 lbs

If choice B is selected set score to 1.

27. You When using two tugs to assist in mooring a large, deeply laden ship, the most powerful tug is usually placed _____.

- (A) forward to control the bow
- (B) amidships to move the entire vessel evenly
- (C) aft to assist the ship's rudder and propeller
- (D) anywhere, since the maneuverability of the tug governs the placement not the power

If choice A is selected set score to 1.

28. In an emergency, the electro-hydraulic steering units can be directly controlled by the _____.

- (A) receiver unit
- (B) rapson slide
- (C) trick wheel
- (D) follow-up gear

If choice C is selected set score to 1.

29. In illustration D038DG below, what type of anchor is depicted?

- (A) Old-fashioned
- (B) Patent
- (C) Danforth
- (D) Stock

If choice B is selected set score to 1.

30. How many turns of wire normally mark either side of the detachable link 45 fathoms from the anchor?

- (A) 1
- (B) 2
- (C) 3
- (D) 4

If choice C is selected set score to 1.

31. You are docking a vessel starboard side to with the assistance of two tugs. You are attempting to hold the vessel off by operating both tugs at right angles to the vessel and at full power. You must ensure that _____.

- (A) the bow closes the dock first
- (B) steerageway is not taken off
- (C) the ship has no headway at the time
- (D) the bow doesn't close the dock first

If choice C is selected set score to 1.

32. The use of an anchor to assist in turning in restricted waters is _____.

- (A) to be used only with a single-screw vessel
- (B) good seamanship
- (C) the sign of a novice shiphandler
- (D) a last resort

If choice B is selected set score to 1.

33. The bow thruster generally is ineffective at _____.

- (A) at any speed astern
- (B) over 3 knots headway
- (C) over 1 knot sternway
- (D) at any speed ahead

If choice B is selected set score to 1.

34. In order to back a right-handed, single-screw vessel in a straight line, you will probably need to use _____.

- (A) very little rudder
- (B) some left rudder
- (C) full left rudder
- (D) some right rudder

If choice D is selected set score to 1.

35. It is easier to dock a right-hand, single-screw vessel _____.

- (A) port side to the wharf
- (B) either side to the wharf
- (C) starboard side to the wharf
- (D) stern to the wharf

If choice A is selected set score to 1.

36. The BEST holding ground for conventional anchors is _____.

- (A) hard mud
- (B) rock
- (C) shale
- (D) very soft mud

If choice A is selected set score to 1.

37. After casting off moorings at a mooring buoy in calm weather, you should _____.

- (A) go full ahead on the engine(s)
- (B) go half ahead on the engines and put the rudder hard right
- (C) back away a few lengths to clear the buoy and then go ahead on the engines
- (D) go half ahead on the engines and pass upstream of the buoy

If choice C is selected set score to 1.

38. When preparing to hoist the anchor, you should FIRST _____.

- (A) take the riding pawl off the chain
- (B) engage the wildcat
- (C) put the brake in the off position
- (D) take off the chain stopper

If choice B is selected set score to 1.

39. The Sheer Plan _____.

- (A) shows a longitudinal side elevation
- (B) is usually drawn for the port side only
- (C) has the forebody to the right of centerline and afterbody to the left of centerline
- (D) is an endwise view of the ship's molded form

If choice A is selected set score to 1.

40. A deck beam does NOT _____.

- (A) act as a tie to keep the sides of the ship in place
- (B) lessen the longitudinal stiffness of the vessel
- (C) act as a web to prevent plate wrinkling due to twisting action on the vessel
- (D) act as a beam to support vertical deck loads

If choice B is selected set score to 1.

41. In illustration D041DG below, which of the following is the symbol for displacement?

- (A) 1
- (B) 2
- (C) 3
- (D) 4

If choice A is selected set score to 1.

42. A well in the uppermost deck of a shelter deck vessel which has only a temporary means of closing for the purpose of gaining an exemption from tonnage measurement is called a(n) _____.

- (A) cofferdam
- (B) tonnage opening
- (C) exemption space
- (D) tonnage deck

If choice B is selected set score to 1.

43. All electrical appliances aboard a vessel should be grounded to _____.

- (A) prevent unauthorized personnel from operating them
- (B) prevent them from falling when the vessel rolls
- (C) increase their operating efficiency
- (D) protect personnel from electrical shock

If choice D is selected set score to 1.

44. According to the Code of Federal Regulations, which of the following statements is correct regarding the steering gear on a vessel contracted for after June 9, 1995?

- (A) On hydraulic type steering gears, a suitable arrangement of check valves in the main piping system may be considered as a means of steadying the rudder.
- (B) A separate auxiliary means of steering is not required where the main gear is of the dual power hydraulic type, having two independent pumps and connections.
- (C) Hydraulic structural rudder stops are mandatory.
- (D) All of the above.

If choice B is selected set score to 1.

45. An accommodation ladder or other equally safe and convenient means must be provided for a pilot whenever the distance from the sea level is more than _____.

- (A) 20 feet
- (B) 30 feet
- (C) 40 feet
- (D) 50 feet

If choice B is selected set score to 1.

46. According to regulations when, if ever, may cargo hatches on Great Lakes vessels, with more than 6 feet of freeboard, be left uncovered or open while the vessel is being navigated?

- (A) On the authority of the Bosun
- (B) At the discretion of the Master, for reasonable purposes
- (C) The hatch may never be uncovered
- (D) If a Mate deems it necessary for ship's maintenance

If choice B is selected set score to 1.

47. Which vessel is most likely to be loaded full but not down?

- (A) A break bulk vessel loaded with palletized cargo
- (B) A tanker loaded with heavy grain
- (C) A bulk carrier loaded with heavy ore
- (D) A bulk carrier loaded with steel

If choice A is selected set score to 1.

48. "Cribbing" is _____.

- (A) wooden blocks or dunnage placed between a deck load and the deck
- (B) cardboard separation pieces placed between deck loads to prevent chafing
- (C) the chains and shackles used to secure a deck cargo
- (D) a crate in which a deck cargo is packaged

If choice A is selected set score to 1.

49. Which statement(s) is/are TRUE concerning crane cargo operations?

- (A) During any cargo handling operation, the safety of personnel is paramount.
- (B) Cargo handlers must be outfitted with adequate protection from personal injury.
- (C) Do not exceed rated load capacity of crane and container spreader or slings.
- (D) All the above

If choice D is selected set score to 1.

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

- (A) Gin block
- (B) Hook block
- (C) Rider block
- (D) Heel block

If choice B is selected set score to 1.

51. Which data can NOT be found on a moisture equilibrium chart?

- (A) Dry bulb temperature
- (B) Vapor pressure
- (C) Moisture content
- (D) Wet bulb temperature

If choice D is selected set score to 1.

52. Your vessel is loaded with nonhygroscopic cargoes and is going from a cold to a warm climate. You should _____.

- (A) ventilate the cargo holds
- (B) start the intake blowers
- (C) start the exhaust blowers
- (D) not ventilate the cargo holds

If choice D is selected set score to 1.

53. According to Coast Guard Regulations (46 CFR), when loading, or discharging oil in bulk at a dock, which of the following signals must be displayed?

- (A) A green flag (day), green light (night)
- (B) A signal is not required for discharging oil, only gasoline
- (C) A yellow flag (day), red light (night)
- (D) A red flag (day), red light (night)

If choice D is selected set score to 1.

54. The scuppers had been plugged as required at the time an oil spill occurs on deck. After shutting down the transfer, the engineroom should first be informed and then _____.

- (A) spread an absorbent material, such as sawdust
- (B) sound the general alarm
- (C) remove the plugs from the scuppers
- (D) rig a fire hose and call for water on deck

If choice A is selected set score to 1.

55. Which of the following describes (auto) ignition temperature?

- (A) the temperature at which no spark or flame is required to ignite gas or vapor
- (B) the temperature at which a fuel if ignited will continue to burn
- (C) the temperature at which a 1% mixture of the fuel with air will explode
- (D) the temperature at which a fuel begins to give off explosive vapors

If choice A is selected set score to 1.

56. On an inspected vessel, when may a stability test may be dispensed with?

- (A) vessel is of a proven design
- (B) projected cost is unreasonable
- (C) Coast Guard has the approved stability test results of a sister vessel
- (D) Coast Guard does not have a qualified inspector available

If choice C is selected set score to 1.

57. On an inspected vessel, which abbreviation refers to the horizontal distance between perpendiculars taken at the forward-most and the after-most points on the waterline at her deepest operating draft?

- (A) LWL
- (B) LLL
- (C) LOA
- (D) LBP

If choice D is selected set score to 1.

58. Safety equipment on board vessels must be approved by the _____.

- (A) U.S. Coast Guard
- (B) Safety Standards Bureau
- (C) National Safety Council
- (D) Occupational Safety and Health Administration (OSHA)

If choice A is selected set score to 1.

59. Total responsibility for shipping and discharging the seamen is that of the _____.

- (A) U.S. Coast Guard
- (B) steamship company
- (C) U.S. Custom Service
- (D) Master of the vessel

If choice D is selected set score to 1.

60. While a vessel is in a foreign port where there is no American Consul, a seaman becomes violent prior to sailing. The Master should _____.

- (A) put the seaman in irons and sail to the next port where there is an American Consul
- (B) send the seaman ashore and arrange with the agent to repatriate him by armed guard
- (C) call local police, put the seaman in prison ashore, and sail the vessel
- (D) pay off the seaman and make arrangements with the agent to return him to the original port of signing on in the U.S.

If choice A is selected set score to 1.

61. Preparation of muster lists and signing of same is the responsibility of the _____.

- (A) Master of the vessel
- (B) Chief Officer of the vessel
- (C) owner of the vessel
- (D) United States Coast Guard

If choice A is selected set score to 1.

62. Each crewmember has an assigned firefighting station. This assignment is shown on the _____.

- (A) Certificate of Inspection
- (B) muster list
- (C) shipping articles
- (D) fire fighting plan

If choice B is selected set score to 1.

63. You are on watch and receive word that a person has fallen overboard from the starboard side. What should your first action be?

- (A) put the wheel hard right
- (B) notify the Master
- (C) sound the man overboard alarm
- (D) put the engines full astern

If choice A is selected set score to 1.

64. Which statement is TRUE concerning spare charges for portable fire extinguishers on unmanned tank barges?

- (A) If the unit cannot be charged by the vessel's personnel, one spare unit shall be carried in lieu of spare charges.
- (B) Spare charges shall be stowed in watertight containers on deck.
- (C) Regulations concerning spare charges do not apply to unmanned barges.
- (D) Spare charges shall be carried for at least 50 percent of each size and variety required on board.

If choice C is selected set score to 1.

65. Inflatable liferafts must be overhauled and inspected at a U. S. Coast Guard approved service facility every _____.

- (A) eighteen months
- (B) twelve months
- (C) six months
- (D) twenty-four months

If choice B is selected set score to 1.

66. Inflatable liferafts shall be serviced at an approved servicing facility every 12 months or not later than the next vessel inspection for certification. However, the total elapsed time between servicing cannot exceed _____.

- (A) 12 months
- (B) 15 months
- (C) 17 months
- (D) 18 months

If choice C is selected set score to 1.

67. A drill must be conducted in the use of the line throwing appliance at least once in every _____.

- (A) 2 months
- (B) 3 months
- (C) 4 months
- (D) 5 months

If choice B is selected set score to 1.

68. You are picking up an unconscious person that has fallen overboard in a fresh breeze. For safety reasons a small craft should approach with the _____.

- (A) victim to leeward
- (B) wind on your port side
- (C) wind on your starboard side
- (D) victim to windward

If choice D is selected set score to 1.

69. When transferring survivors from a survival craft to a rescue vessel, personnel on board the craft should _____.

- (A) remain seated inside the survival craft and make the transfer one person at a time
- (B) remove their lifejackets to make it easier to climb on board the rescue vessel
- (C) enter the water and swim over to the rescue vessel
- (D) climb on top of the survival craft while waiting their turn to transfer to the rescue vessel

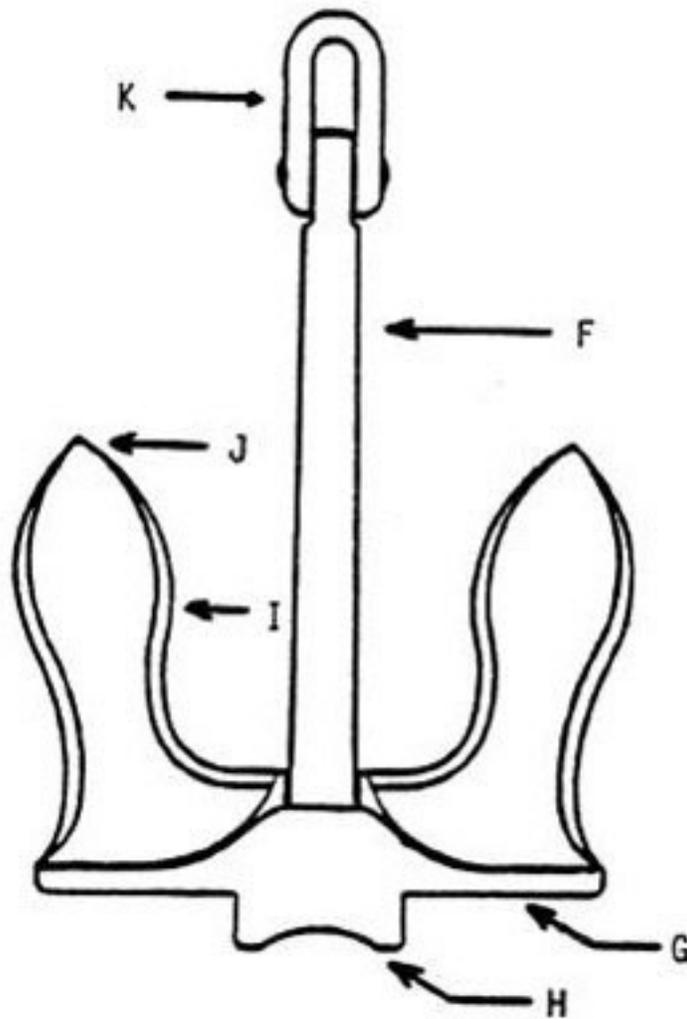
If choice A is selected set score to 1.

70. You are trying to rescue survivors from a wrecked vessel on fire. You should approach _____.

- (A) to windward of the wrecked vessel
- (B) to leeward of the wrecked vessel
- (C) at a speed of at most one-half that of the wrecked vessel
- (D) at a speed of at least that of the wrecked vessel

If choice A is selected set score to 1.

D038DG



D041DG



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2



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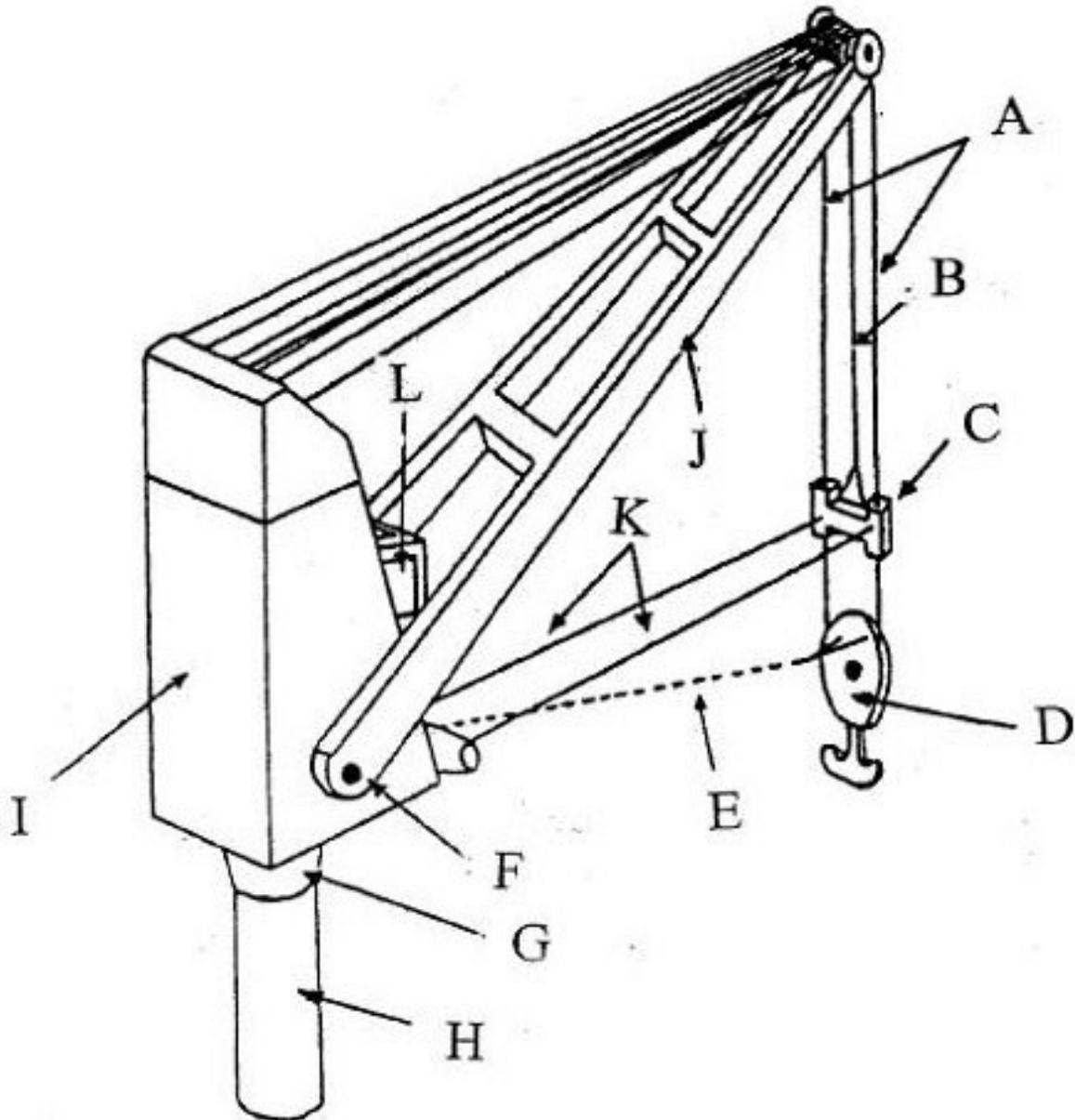


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D045DG



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