

## U.S.C.G. Merchant Marine Exam

### Master or Mate Less than 200 Gross Registered Tons

#### Q150 Deck General

#### (Sample Examination)

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

1. The Articles of Agreement \_\_\_\_\_.

- (A) is also known as a Merchant Mariner's Document
- (B) advises the crew of the conditions of employment
- (C) are signed by each crewmember at the end of the voyage
- (D) designates the quarters a seaman will occupy during a voyage

*If choice B is selected set score to 1.*

2. Under normal operating conditions aboard a ship, who has the overall responsibility in maintaining the Oil Record Book?

- (A) Chief Engineer
- (B) Master
- (C) First Assistant Engineer
- (D) Chief Mate

*If choice B is selected set score to 1.*

3. In reference to accidental oil pollution, the most critical time during bunkering is when \_\_\_\_\_.

- (A) final topping off is occurring
- (B) hoses are being disconnected
- (C) you first start to receive fuel
- (D) hoses are being blown down

*If choice A is selected set score to 1.*

4. Which will most likely occur when entering shallow water?

- (A) The vessel's trim will change.
- (B) An increase in speed will occur.
- (C) The vessel's list will change.
- (D) Rudder action will become more effective.

*If choice A is selected set score to 1.*

5. When inspecting ground tackle, fractures are most frequently found in the \_\_\_\_\_.

- (A) end links
- (B) fluke
- (C) swivel
- (D) anchor shank

*If choice A is selected set score to 1.*

6. A precaution you should take before bunkering is to \_\_\_\_\_.

- (A) plug the sounding pipes
- (B) plug the scuppers
- (C) close the lids on the vents
- (D) plug the vents

*If choice B is selected set score to 1.*

7. When making way in heavy seas you notice that your vessel's screw is being lifted clear of the water and racing. One way to correct this would be to \_\_\_\_\_.

- (A) move more weight forward
- (B) increase speed
- (C) shift the rudder back and forth several times
- (D) decrease speed

*If choice D is selected set score to 1.*

8. You are operating a 1,000 GT non-ocean going tankship. It must be equipped with \_\_\_\_\_.

- (A) a means on the weather deck to stop each pump used to discharge oily waste
- (B) a fixed piping system for bilge slops with one outlet on each side of the weather deck
- (C) two pumps for discharging oily bilge slops
- (D) None of the above

*If choice D is selected set score to 1.*

9. Which letter shown in illustration D030DG below represents a clove hitch?

- (A) U
- (B) R
- (C) T
- (D) X

*If choice D is selected set score to 1.*

10. Which is part of the ground tackle?

- (A) Devil's claw
- (B) Gooseneck
- (C) Charlie noble
- (D) Rat's tail

*If choice A is selected set score to 1.*

**11.** When instructing a crew member concerning the right way to lift a weight, you would instruct him to \_\_\_\_\_.

- (A) bend his back and stoop with arms straight
- (B) arch the back to add strength to the muscles
- (C) bend his back and stoop
- (D) bend his knees and lift with his legs

*If choice D is selected set score to 1.*

**12.** To coil a left-hand laid rope, you should coil the line in \_\_\_\_\_.

- (A) either a clockwise or a counterclockwise direction
- (B) a counterclockwise direction only
- (C) an alternating clockwise and counterclockwise direction
- (D) a clockwise direction only

*If choice B is selected set score to 1.*

**13.** A Chinese stopper (two lines) will hold best when you \_\_\_\_\_.

- (A) twist the ends together and hold them at right angles to the mooring line
- (B) twist the ends together and hold them in the direction opposite to the pull
- (C) fasten the bitter ends to the mooring line with half hitches
- (D) twist the ends together and hold them in the direction of the pull

*If choice D is selected set score to 1.*

**14.** You have the "conn" at the time the helmsman who is steering by hand reports that the rudder is not responding to the wheel. Your FIRST action should be to \_\_\_\_\_.

- (A) signal the engineroom to stop the engines
- (B) call the engineroom
- (C) call the Master
- (D) shift the selector switch to the other steering pump

*If choice D is selected set score to 1.*

**15.** Providing you are not sailing in the Red Sea or another special area as listed in ANNEX V of MARPOL, how many miles from land must you be to throw garbage including bottles, rags, and glass that has not been ground up into the sea?

- (A) 3 nm
- (B) 6 nm
- (C) 12 nm
- (D) 25 nm

*If choice C is selected set score to 1.*

**16.** The standing part of a tackle is \_\_\_\_\_.

- (A) the hook that engages the weight to be moved
- (B) that part to which power is applied
- (C) all the fall except the hauling part
- (D) that part of the falls made fast to one of the blocks

*If choice D is selected set score to 1.*

**17.** You are a watchstanding mate and have come to the bridge to relieve the watch. After reviewing the chart and having been briefed by the off-going mate, you are now ready to effect the relief. The watch is officially transferred to you after \_\_\_\_\_.

- (A) the mate being relieved says, "You have the conn" and you state the ship's course
- (B) you say, "I relieve you" and you state the course per gyro and magnetic compasses
- (C) the mate being relieved tells you the vessel's course and speed and states that you have the watch
- (D) you state the vessel's charted position, present course and port of destination

*If choice B is selected set score to 1.*

**18.** When piloting a vessel, how are visual references used to establish a constant rate of turn?

- (A) Visual references cannot be used to maintain a constant rate of turn.
- (B) Begin the turn when the fixed object is on the beam.
- (C) Fixed objects that stay on the same relative bearing when the ship is turning indicate a constant rate of turn.
- (D) Keep the fixed object's relative bearing opening, for a constant rate of turn.

*If choice C is selected set score to 1.*

**19.** Which effect does speed through the water have on a vessel which is underway in shallow water?

- (A) A decrease in the speed results in a decrease in steering response and maneuverability.
- (B) A decrease in speed results in the vessel sucking down on an even plane.
- (C) An increase in speed results in the stern sucking down lower than the bow.
- (D) An increase in speed results in the vessel rising on an even plane.

*If choice C is selected set score to 1.*

**20.** You are docking a ship with a single-screw tug assisting on your starboard bow. How should the tug be tied up if you are anticipating that she will have to hold your bow off while you stem the current?

- (A) The tug would need at least two head lines.
- (B) The tug should put a stern line up, leading ahead on the ship.
- (C) The tug should put a spring line up, leading astern on the ship.
- (D) One head line would be sufficient.

*If choice B is selected set score to 1.*

**21.** A sufficient amount of chain must be veered when anchoring a vessel to ensure \_\_\_\_\_.

- (A) there is more chain out than there is in the chain locker
- (B) the vessel has enough room to swing while at anchor
- (C) there is a sufficient scope of chain to keep the anchor on the bottom
- (D) the anchor flukes bite into the ocean bottom

*If choice D is selected set score to 1.*

**22.** Which action(s) is/are included in crane operations?

- (A) Removing booms from stowage
- (B) Pre-operation checks and start-up
- (C) Luff, slew, and hoist operations
- (D) All of the above

*If choice D is selected set score to 1.*

**23.** You are planning to anchor in an area where several anchors have been lost due to fouling. As a precaution, you should \_\_\_\_\_.

- (A) anchor with scope of 8 or more to 1
- (B) anchor using both anchors
- (C) use a stern anchor
- (D) fit a crown strap and work wire to the anchor

*If choice D is selected set score to 1.*

**24.** If you are loading fruit in reefer spaces and you notice that the fruit is beginning to mold, you should \_\_\_\_\_.

- (A) carry the cargo at a cooler temperature than originally planned
- (B) discharge CO<sub>2</sub> into the compartment after loading
- (C) refuse to carry the cargo
- (D) write up exceptions on the cargo

*If choice D is selected set score to 1.*

**25.** In order to reduce your wake in a narrow channel you should \_\_\_\_\_.

- (A) apply enough rudder to counter the effect of the current
- (B) reduce your speed
- (C) shift the weight to the stern
- (D) change your course to a zigzag course

*If choice B is selected set score to 1.*

**26.** Your vessel is broken down and rolling in heavy seas. You can reduce the danger of capsizing by \_\_\_\_\_.

- (A) moving all passengers to the stern
- (B) moving all passengers to one side of the boat
- (C) rigging a sea anchor
- (D) constantly shifting the rudder

*If choice C is selected set score to 1.*

**27.** Leeway is the \_\_\_\_\_.

- (A) difference between the true course and the compass course
- (B) lateral movement of a vessel downwind of her intended course
- (C) displacement of a vessel multiplied by her speed
- (D) momentum of a vessel after her engines have been stopped

*If choice B is selected set score to 1.*

**28.** As a rule, ships of most configurations, when drifting in calm water with negligible current, will lie \_\_\_\_\_.

- (A) stern to the wind
- (B) beam to the wind
- (C) with the wind on the quarter
- (D) bow to the wind

*If choice B is selected set score to 1.*

**29.** The boom indicator on a crane will indicate the \_\_\_\_\_.

- (A) lifting capacity of the boom
- (B) direction of the boom
- (C) length of the boom
- (D) angle of the boom

*If choice D is selected set score to 1.*

**30.** The wire rope used for cargo handling on board your vessel has a safe working load of eight tons. It shall be able to withstand a breaking test load of \_\_\_\_\_.

- (A) 32 tons
- (B) 40 tons
- (C) 48 tons
- (D) 64 tons

*If choice B is selected set score to 1.*

**31.** When fruit is carried as refrigerated cargo, the most frequent cause of its being infected at the discharge port is \_\_\_\_\_.

- (A) carriage at the wrong temperature
- (B) improper cleaning of the cargo spaces
- (C) improper precooling of the cargo spaces
- (D) leaks in the ship's refrigeration system

*If choice B is selected set score to 1.*

**32.** Petroleum cargo tanks should not be topped off at deck level when loading on a cold day due to which of the following?

- (A) air pockets may cause the cargo to bubble out of the ullage hole
- (B) the tank valve may be stiff and a spill will occur before the valve can be closed
- (C) the increased viscosity of the product requires higher loading pressure which increases the chances of a spill
- (D) a subsequent temperature rise will cause the cargo to overflow

*If choice D is selected set score to 1.*

**33.** When loading a tanker, you should \_\_\_\_\_.

- (A) keep the seamen on watch on standby in the mess room
- (B) keep a strain on the loading hoses
- (C) close valves by closing them down, reopening one or two turns, and re-closing
- (D) load only one tank at a time

*If choice C is selected set score to 1.*

**34.** The international body responsible for drafting the convention prohibiting marine pollution (MARPOL) is the \_\_\_\_\_.

- (A) Association of Seafaring Nations
- (B) International Association of Shipping
- (C) International Maritime Organization
- (D) Maritime Advisory Council

*If choice C is selected set score to 1.*

**35.** According to U.S. regulations, which of the following describes the declaration of inspection?

- (A) paper issued by the Coast Guard marine inspector which allows you to conduct a transfer operation
- (B) application you must complete and submit to the Coast Guard to have an inspector visit your vessel
- (C) document signed by vessel and shore facility persons-in-charge declaring that all transfer requirements have been met
- (D) annual report submitted by vessel personnel to the Coast Guard declaring that all transfer equipment has been inspected

*If choice C is selected set score to 1.*

**36.** What shall the transfer procedures required to be followed on tankships contain?

- (A) a line diagram of the vessel transfer piping
- (B) the duties by name of each person in charge required for each transfer operation
- (C) a list of each port of discharge
- (D) a current crew list

*If choice A is selected set score to 1.*

**37.** Fuel for use on a vessel (300 GT or more constructed before July 1, 1974) may be carried in independent tanks forward of a collision bulkhead if the \_\_\_\_\_.

- (A) tanks were designated, installed, or constructed for fuel oil carrying before July 1, 1974
- (B) shell of the tank is of the same thickness or greater than that of the vessel's hull
- (C) fuel has a flash point above 180°F
- (D) tank is 18 inches inboard of the hull structure

*If choice A is selected set score to 1.*

**38.** You are at sea and not in a special area as defined in ANNEX V of MARPOL. How many nautical miles from land must you be to discharge ground garbage that will pass through a one-inch (25 mm) screen into the sea?

- (A) 3 nm
- (B) 25 nm
- (C) 6 nm
- (D) 12 nm

*If choice A is selected set score to 1.*

- 39.** A vessel loads 5000 tons of manganese ore. The railroad cars that brought the ore to the vessel were previously loaded with iron ore so the ore is contaminated. The agent requests the Master to sign a Clean Bill of Lading and in return the shipper will give him a Letter of Indemnity. What is the best procedure to follow?
- (A) Refuse to sign a Clean Bill of Lading.
  - (B) Sign a Clean Bill of Lading and accept the Letter of Indemnity.
  - (C) Sign the Clean Bill of Lading and have the agent countersign it.
  - (D) Sign a Clean Bill of lading under protest.

*If choice A is selected set score to 1.*

- 40.** Which space(s) is(are) exempt when measuring gross tonnage?

- (A) Part of the wheelhouse used to control vessel
- (B) Steering gear room
- (C) Auxiliary machinery spaces above the uppermost continuous deck
- (D) All of the above

*If choice D is selected set score to 1.*

- 41.** The number of able seamen required on board is stated in the \_\_\_\_\_.

- (A) Certificate of Inspection
- (B) Classification Certificate
- (C) Solas Certificate
- (D) American Bureau of Shipping code

*If choice A is selected set score to 1.*

- 42.** 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) AN IOPP Certificate is renewed at each inspection for certification.
- (C) The IOPP Certificate is valid for 5 years.
- (D) An IOPP Certificate is invalid if the ship carries cargoes outside the classes authorized thereon.

*If choice C is selected set score to 1.*

- 43.** Which statement concerning dual-tonnage vessels is TRUE?

- (A) The tonnages referred to are the displacement tonnage and gross tonnage.
- (B) A single-deck vessel may not be assigned dual tonnages.
- (C) The dual-tonnage mark is always marked above the load line marks.
- (D) The dual-tonnage mark must never be submerged beyond the freshwater allowance.

*If choice B is selected set score to 1.*

**44.** The Certificate of Freeboard is the \_\_\_\_\_.

- (A) Load Line Certificate
- (B) Admeasurer's Certificate
- (C) Forecastle Card
- (D) Certificate of Inspection

*If choice A is selected set score to 1.*

**45.** You are bound from port A governed by the summer load line mark to port B also governed by the summer mark. The great circle track will take you into a zone governed by the winter mark. Which statement is TRUE?

- (A) You must be at the winter mark when you enter the winter zone and cannot exceed the summer mark upon departing port A.
- (B) You can only load to the winter mark plus any fresh water allowance and burnout to sea at port A.
- (C) You cannot load beyond the summer mark at port A and must be at the winter mark upon arrival at port B.
- (D) You can load so that upon arrival at the pier at port B your freeboard is equal to the summer mark less any fresh water allowance.

*If choice A is selected set score to 1.*

**46.** When an azimuth of the Sun has been taken and the deviation of the standard magnetic compass computed, the watch officer should record the results \_\_\_\_\_.

- (A) in the compass deviation log
- (B) on a Napier diagram
- (C) on the compass deviation card
- (D) in the vessel's Official Logbook

*If choice A is selected set score to 1.*

**47.** 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) LLL
- (B) LBP
- (C) LWL
- (D) LOA

*If choice B is selected set score to 1.*

**48.** The trim and stability booklet must be approved by the \_\_\_\_\_.

- (A) International Maritime Organization
- (B) National Cargo Bureau
- (C) Society of Naval Architects and Marine Engineers
- (D) United States Coast Guard

*If choice D is selected set score to 1.*

**49.** How many months after its expiration date may a Coast Guard credential be renewed without retaking the complete exam?

- (A) 1 month
- (B) 6 months
- (C) 12 months
- (D) 24 months

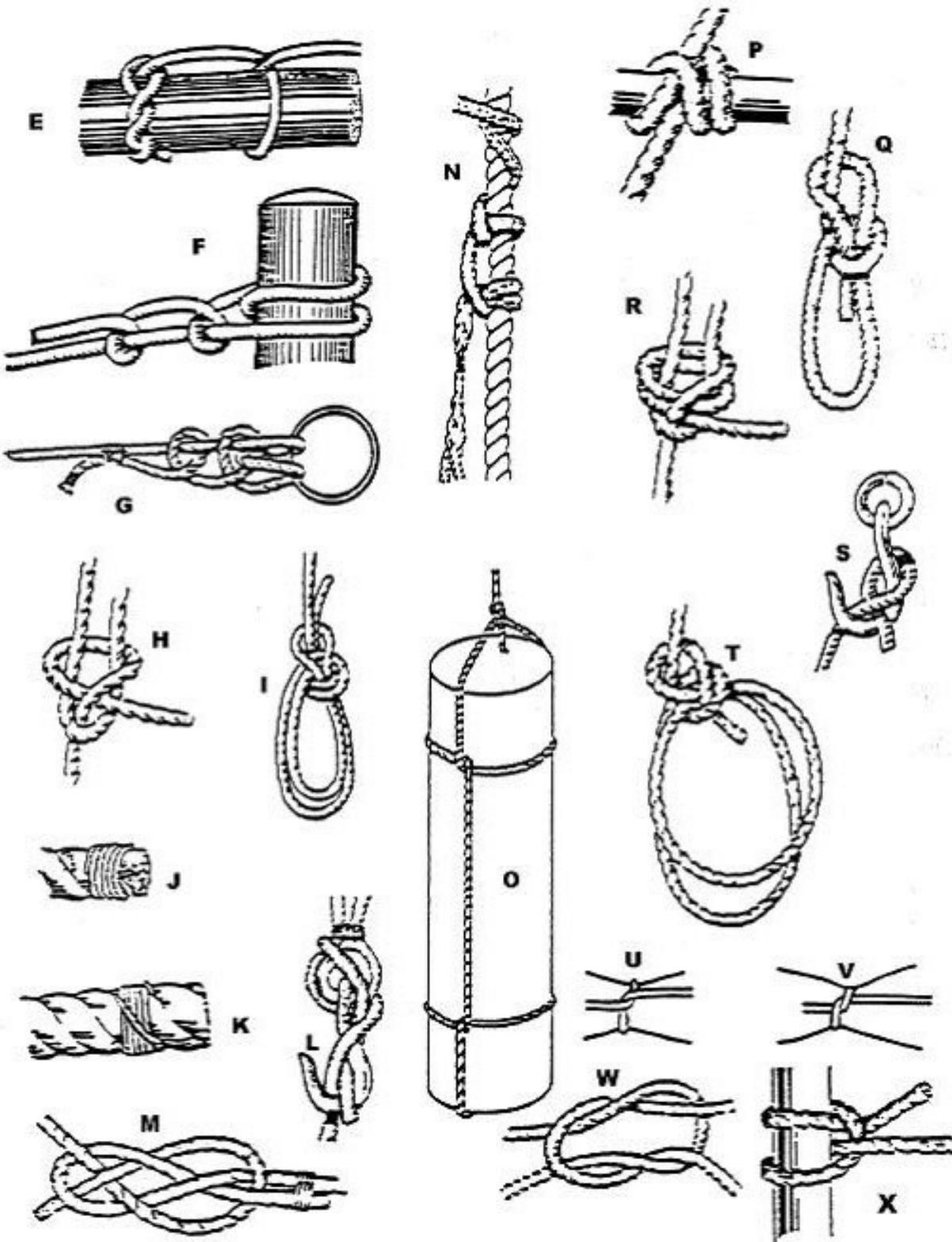
*If choice C is selected set score to 1.*

**50.** A copy of the Articles of Agreement, less the signatures, is required to be posted. What is this document called?

- (A) Voyage Agreement
- (B) Shipping Articles
- (C) Forecastle Card
- (D) Articles Copy

*If choice C is selected set score to 1.*

## D030DG



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