

U.S.C.G. Merchant Marine Exam

Master Less than 500-1600 Gross Registered Tons

Q120 Deck General

(Sample Examination)

Choose the best answer to the following Multiple Choice Questions:

1. If you are loading fruit in reefer spaces and you notice that the fruit is beginning to mold, which action should you take?
- (A) Write up exceptions on the cargo
 - (B) Refuse to carry any of the cargo
 - (C) Carry the cargo at a cooler temperature than originally planned
 - (D) Discharge CO2 into the compartment after loading

If choice A is selected set score to 1.

2. Which document has a list of names, birthplaces, and residences of persons employed on a merchant vessel bound from a U.S. port on a foreign voyage and is required at every port?
- (A) A Crew List on form I-418
 - (B) A Muster List ("Station Bill")
 - (C) The Shipping Articles for every crewmember
 - (D) A Crew Manifest

If choice A is selected set score to 1.

3. On an inspected vessel, when may a stability test be dispensed with?
- (A) The vessel is of a proven design
 - (B) The projected cost is unreasonable
 - (C) Coast Guard does not have a qualified inspector available
 - (D) Coast Guard has the approved stability test results of a sister vessel

If choice D is selected set score to 1.

4. Your vessel is required to have a slop chest. Which of the following articles is NOT required by law to be carried in the slop chest?
- (A) Candy
 - (B) Tobacco products
 - (C) Foul weather clothing
 - (D) Blankets

If choice A is selected set score to 1.

5. When is a seaman entitled by law to a release from Foreign Articles?
- (A) If the vessel is overloaded
 - (B) If the seaman has been injured requiring first aid
 - (C) If deductions are made from wages
 - (D) If the Master is intoxicated

If choice A is selected set score to 1.

6. According to the Chemical Data Guide, to what chemical family does 1,3 - pentadiene belong?

- (A) Olefins
- (B) Esters
- (C) Phosphorus
- (D) Unsaturated hydrocarbons

If choice A is selected set score to 1.

7. You are going to load bales of wool having a stowage factor of 96 in #3 lower hold which has a bale cubic of 84,000. How many tons of wool can be stowed in the compartment?

- (A) 577
- (B) 602
- (C) 654
- (D) 875

If choice D is selected set score to 1.

8. When is the best time to work a boat into a slip?

- (A) When there is a cross current
- (B) When the current is setting against you
- (C) When the wind is against you
- (D) At slack water

If choice D is selected set score to 1.

9. Your vessel (185 GT) is on a voyage between New York and San Francisco. Which statement is TRUE?

- (A) The vessel must be on foreign articles.
- (B) This is considered a coastwise voyage.
- (C) The maintenance of an Official Logbook is optional.
- (D) An Official Logbook must be maintained.

If choice D is selected set score to 1.

10. You are docking a vessel in a slip which has its entrance athwart the tide. You land the ship across the end of the pier, stemming the tide, preparatory to breaking the ship around the corner. You have one tug to assist. Where would you generally tie up the tug?

- (A) Have her on a hawser from the stern.
- (B) Tie her up on the inshore quarter to lift the stern.
- (C) Tie her up on the inshore bow to hold the ship off the end.
- (D) Tie her up on the offshore bow.

If choice D is selected set score to 1.

11. Which statement about general average is TRUE?

- (A) Property must have been sacrificed or an expenditure of money incurred.
- (B) Damage to a ship must have been incurred while the ship and/or its machinery was being used for its intended purpose.
- (C) Of the ship, the freight, and the cargo interests, only one need be involved.
- (D) The loss or damage to deck cargo due to heavy weather constitutes general average.

If choice A is selected set score to 1.

12. After casting off moorings at a mooring buoy in calm weather, which action should you take?

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

If choice A is selected set score to 1.

13. According to U.S. regulations, what vessels are required to have the "Discharge of Oil Prohibited" placard?

- (A) U.S. vessels less than 26 feet in length
- (B) U.S. Vessels 26 feet or more in length
- (C) Foreign vessels not in U.S. navigable waters
- (D) Foreign vessels when engaged in noncommercial service

If choice B is selected set score to 1.

14. Which statement about tunnel bow thrusters fitted to large vessels is TRUE?

- (A) Because of their location, most modern installations have as much power as a tug.
- (B) When going astern at slow speed, they provide effective steering control.
- (C) They are fully effective at all drafts.
- (D) They are effective on most vessels at speeds up to 10 knots.

If choice B is selected set score to 1.

15. Which statement is TRUE when using the anchor to steady the bow while approaching a dock?

- (A) Steering control is ineffective in trying to turn to the side opposite to that of the anchor being used
- (B) The anchor cable must never lead under the hull
- (C) Using an offshore anchor decreases the chances of the anchor holding
- (D) The vessel will tend to take a large sheer towards the side where the anchor is down

If choice C is selected set score to 1.

16. A marine chemist issues gas free certificates and is certified by which organization?

- (A) Mine Safety Appliance Association
- (B) Marine Chemists Association
- (C) National Fire Protection Association
- (D) American Chemical Society

If choice C is selected set score to 1.

17. When a two-leg sling is used to lift a 20 feet load, why is it better to use a sling 40 feet long than one of 30 feet?

- (A) Tension in the sling legs is less
- (B) The load can be lifted higher
- (C) The sling will be easier to remove
- (D) The sling will be easier to attach

If choice A is selected set score to 1.

18. What color must the last 1.0 meter (3.3 feet) of piping before the vessel vapor connection be painted?

- (A) hi-visibility yellow
- (B) yellow/red/yellow
- (C) red/yellow/red
- (D) international orange

If choice C is selected set score to 1.

19. 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

If choice C is selected set score to 1.

20. What is NOT considered maritime property in a salvage claim?

- (A) Cargo
- (B) Rafts
- (C) Light-vessels
- (D) Tug boat

If choice C is selected set score to 1.

21. What is the "iron mike"?

- (A) The automatic pilot
- (B) A speaker
- (C) The pilot
- (D) A standby wheel

If choice A is selected set score to 1.

22. An icebreaker may use the code letter "K" to remind ships of their obligation to listen continuously on their radio. How can this signal be communicated to other vessels?

- (A) By light signal
- (B) By visual signal
- (C) By sound signal
- (D) All of the above

If choice D is selected set score to 1.

23. SOLAS requires a lifesaving training manual be provided in each crew cabin or in which other location?

- (A) On the bridge
- (B) In the fire control room
- (C) In the engineering control station
- (D) In the recreation and messrooms

If choice D is selected set score to 1.

24. You are heading into the sea during rough weather. What may happen if there is too much weight forward in your small boat?

- (A) The craft may plunge into the wave
- (B) The craft will rise rapidly over the wave
- (C) The craft will broach
- (D) The craft will list severely

If choice A is selected set score to 1.

25. SOLAS requires Emergency Instructions be posted in conspicuous places throughout the vessel. On a passenger vessel what language shall these instructions be posted in?

- (A) English because it is the international language
- (B) The principal language of the passengers and in English
- (C) The language required by the ship's flag State and in English
- (D) English, Spanish, French and German

If choice C is selected set score to 1.

26. What is the total number of approved low-velocity water spray ("water-fog") applicators required aboard a tankship?

- (A) 4
- (B) 7
- (C) 10
- (D) 11

If choice B is selected set score to 1.

27. The official logbook is filed with the Officer in Charge, Marine Inspection. When does this action take place?

- (A) Upon completion of the voyage
- (B) Within 30 days of the date of arrival of the first U.S. port
- (C) At the end of the year with all other official logbooks
- (D) At the next Certificate of Inspection

If choice A is selected set score to 1.

28. Which is the proper term used to describe a stream of water immediately surrounding a moving vessel's hull, flowing in the same direction as the vessel?

- (A) Wake current
- (B) Propeller current
- (C) Directional current
- (D) Forward current

If choice A is selected set score to 1.

29. Which is supplied to the vessel by the U.S. Coast Guard?

- (A) Rough Logbook
- (B) Bell book
- (C) Official Logbook
- (D) Cargo gear register

If choice C is selected set score to 1.

30. To allow for the rise or fall in tide and for change in draft of a tankship during cargo transfer, how must the cargo hoses be secured?

- (A) With topping lifts and runners tied off to winches
- (B) With enough slack to allow vessel to move to its mooring limits
- (C) Using slings or saddles placed at 25-foot (8 meter) intervals
- (D) All of the above

If choice B is selected set score to 1.

31. An icebreaker assisting a vessel through an ice field displays a visual signal consisting of the code letter "S" (Sierra). What does this signal indicate?

- (A) I am operating astern propulsion
- (B) I am altering my course to starboard
- (C) I am altering my course to port
- (D) My vessel is stopped and making no way through the water

If choice A is selected set score to 1.

32. What is the period of validity of a Safety Management Certificate?

- (A) 60 months
- (B) 48 months
- (C) 42 months
- (D) 36 months

If choice A is selected set score to 1.

33. A marine radar system for surface navigation must be fitted on all ocean or coastwise vessels of over which tonnage?

- (A) 1,400 GT
- (B) 1,500 GT
- (C) 1,600 GT
- (D) 1,700 GT

If choice C is selected set score to 1.

34. Which is described as a wedge of water building up between the bow and the nearer bank which forces the bow out and away?

- (A) Bank cushion
- (B) Bend effect
- (C) Combined effect
- (D) Bank suction

If choice A is selected set score to 1.

35. Which type of carrier accepts without discrimination all legal cargoes of a shipper?

- (A) Tramp
- (B) Common
- (C) Private
- (D) Industrial

If choice B is selected set score to 1.

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

- (A) A red light
- (B) A yellow flag
- (C) A red flag
- (D) A red and yellow flag

If choice C is selected set score to 1.

37. Which statement is TRUE?

- (A) You need not keep a record of garbage incinerated on the ship.
- (B) You need not keep a record of ground garbage dumped into the sea more than 25 miles offshore.
- (C) You must keep a record of the approximate weight of the garbage dumped.
- (D) You must keep a record of garbage discharged in port to a shore facility.

If choice D is selected set score to 1.

38. The signal man assisting the crane operator has his forearm vertical, forefinger pointing up, and moves his hand in a small horizontal circle. This is the signal to _____.

- (A) hoist
- (B) lower
- (C) extend
- (D) swing

If choice A is selected set score to 1.

39. Which will most likely occur when your vessel enters shallow water?

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

If choice D is selected set score to 1.

40. Flammable liquids should have what kind of label?

- (A) Red
- (B) Skull and crossbones
- (C) White
- (D) Yellow

If choice A is selected set score to 1.

- 41.** You are approaching the pilot station with the wind fine on the starboard bow and making about 3 knots. You can help to calm the seas by taking what action just before the pilot boat comes along on the port side?
- (A) Stopping the engines
 - (B) A short burst of ahead full with left full rudder
 - (C) Backing full
 - (D) Giving right full rudder

If choice B is selected set score to 1.

- 42.** While on watch at sea you must maintain a proper lookout at all times. On a 700-foot cargo vessel being hand-steered during daylight hours in good visibility and clear of any navigational hazards, who may be the lookout?
- (A) The mate on watch
 - (B) The helmsman
 - (C) Either A or B
 - (D) Neither A nor B

If choice A is selected set score to 1.

- 43.** While assigned to a 90 GRT vessel, you are required to sign "foreign" articles on a voyage from Philadelphia to which port?
- (A) San Francisco, CA
 - (B) Baltimore, MD
 - (C) Montreal, Canada
 - (D) Tampico, Mexico

If choice A is selected set score to 1.

- 44.** Which statement is TRUE with respect to shiphandling procedures in ice?
- (A) The presence of a snow cover on the ice assists a vessel's progress through an ice field.
 - (B) Go astern in ice with extreme care - always with rudder amidships.
 - (C) Enter ice at medium speeds to reduce impact.
 - (D) Never go "full astern" at any time while in ice.

If choice B is selected set score to 1.

45. You are loading at port A, governed by the summer load line mark, for a voyage to port B, governed by the winter mark. The fresh water allowance is 10", and the hydrometer reads 1.020. Which statement is TRUE?

- (A) You may not load beyond the summer mark and must be at the winter mark upon arrival at port B.
- (B) You may not load beyond the summer mark plus 8 inches brackish water allowance.
- (C) You may load to the summer mark plus 2 inches if you will be at the winter mark when entering the winter zone.
- (D) You may not load beyond the winter mark except for 2 inches brackish water allowance.

If choice C is selected set score to 1.

46. To determine the weight capacity of a deck in a cargo hold, which reference would you refer to?

- (A) The deck capacity plan
- (B) The general arrangement plan
- (C) The cubic capacity tables
- (D) The deadweight scale

If choice A is selected set score to 1.

47. What is a major consideration when determining the scope of anchor line to pay out when anchoring a small boat?

- (A) The type of anchor being used
- (B) The depth of water, including tidal differences
- (C) The charted depth of water only
- (D) The type of line being used for the anchor rope

If choice B is selected set score to 1.

48. A contract of affreightment is a _____.

- (A) Bill of Lading
- (B) Bottomry Bond
- (C) Portage Bill
- (D) Manifest

If choice A is selected set score to 1.

49. Which agency both assigns load lines, and issues Load Line Certificates?

- (A) The U.S. Customs
- (B) The U.S. Coast Guard
- (C) The American Bureau of Shipping
- (D) The Secretary of Commerce

If choice C is selected set score to 1.

50. Which defines the pitch of a propeller on a merchant vessel?

- (A) The positive pressure resulting from the difference of the forces on both sides of the moving propeller in still water without slip
- (B) The number of feet per revolution the propeller is designed to advance in still water without slip
- (C) The angle that the propeller makes with a free stream of water
- (D) The angle that the propeller makes with the surface of the water

If choice B is selected set score to 1.

51. A vessel to which Annex V to MARPOL 73/78 applies is located in a MARPOL designated special area, 14 nautical miles from nearest land. What type of garbage is permitted to be discharged?

- (A) Glass ground to less than 1"
- (B) Paper products ground to less than 1"
- (C) Food waste ground to less than 1"
- (D) Metal ground to less than 1"

If choice C is selected set score to 1.

52. Using the available references, if the dry bulb temperature is 76°F and the wet bulb temperature is 58°F, what is the relative humidity in a cargo hold?

- (A) 31%
- (B) 47%
- (C) 61%
- (D) 76%

If choice A is selected set score to 1.

53. The International Maritime Dangerous Goods Code assigns classes for dangerous goods. What is the proper nomenclature for class 8 substances?

- (A) Toxic and infectious substances
- (B) Radioactive material
- (C) Flammable liquids
- (D) Corrosive substance

If choice D is selected set score to 1.

54. The number of certificated able seamen and lifeboatmen required on a vessel is determined by which organization?

- (A) Corps of Engineers
- (B) International Maritime Organization
- (C) American Bureau of Shipping
- (D) Coast Guard

If choice D is selected set score to 1.

55. In which situation could a vessel most easily capsize?

- (A) Running in the trough
- (B) Anchored with your bow into the seas
- (C) Running into head seas
- (D) Running with following seas

If choice A is selected set score to 1.

56. Who is responsible for the preparation of muster lists and signing of same?

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

If choice D is selected set score to 1.

57. The securing systems for containers were developed to prevent container movement during which ship motion?

- (A) Surge
- (B) Sway
- (C) Roll
- (D) Yaw

If choice C is selected set score to 1.

58. In illustration D038DG below, the crown of the anchor is indicated by which letter?

- (A) K
- (B) J
- (C) H
- (D) G

If choice C is selected set score to 1.

59. If you observe any situation which presents a safety or pollution hazard during fuel transfer operations, what action should you take FIRST?

- (A) Shut down the transfer operation
- (B) Close the valves at the transfer manifold
- (C) Sound the fire alarm
- (D) Notify the person in charge of the shore facility

If choice A is selected set score to 1.

60. Which is a precaution you should take before bunkering?

- (A) Close the lids on the vents
- (B) Plug the scuppers
- (C) Plug the sounding pipes
- (D) Plug the vents

If choice B is selected set score to 1.

61. Considering the manning requirements for U.S. vessels, your three watch cargo vessel has a deck crew of 20 people, exclusive of the officers. How many of these people do the manning regulations require to be Able Seamen?

- (A) 13
- (B) 5
- (C) 10
- (D) 7

If choice A is selected set score to 1.

62. What effect does lifting the shank of a Stockless anchor that is set on the bottom have?

- (A) The probability of fouling the chain decreases
- (B) The flukes will dig deeper increasing the holding power
- (C) The probability of fouling the chain increases
- (D) The flukes will break free of the bottom

If choice D is selected set score to 1.

63. In accordance with Coast Guard Regulations, which statement is TRUE with regards to Coast Guard approved buoyant work vests?

- (A) A work vest should not be stowed where they could be confused with life jackets in an emergency
- (B) They should be stowed in engineering spaces in lieu of approved life jackets because they are less bulky and permit free movement in confined spaces
- (C) The vests may be used as a substitute for approved life preservers during routine drills, but never during an emergency
- (D) All of the above

If choice A is selected set score to 1.

- 64.** The tankship Northland is loaded as shown in table BL-0024 below. Use the salmon colored pages in the Stability Data Reference Book to determine the hogging numeral.

BL-0024

LONGITUDINAL BENDING STRESSES (PSI)		
	DESCRIPTION	
1.	FORE PEAK	0
2.	DEEP TANK P/S	0
3.	FWD STORES	6
4.	FWD BUNKERS	1600
5.	FWD COFFERDAM	0
6.	#1 CARGO TANK	4759
7.	#2 CARGO TANK	5288
8.	#3 CARGO TANK	5463
9.	#4 CARGO TANK	0
10.	BRIDGE CREW	3
11.	BRIDGE STORES	10
12.	BRIDGE F.W.	10
13.	#5 CARGO TANK	5486
14.	#6 BALLAST TANK	2408
15.	#7 CARGO/BALLAST TANK	5446
16.	#8 CARGO/BALLAST TANK	2410
17.	#9 CARGO/BALLAST TANK	5454
18.	#10 CARGO TANK	5349
19.	#11 CARGO TANK	5026
20.	AFT COFFERDAM	0
21.	AFT BUNKERS	800
22.	AFT SETTLERS	360
23.	DISTILLED WATER	50
24.	AFT STORES	75
25.	AFT CREW	7
26.	F.W. AFT	65
27.	AFT PEAK	0

- (A) 91.36 numeral
- (B) 52.79 numeral
- (C) 72.43 numeral
- (D) 101.02 numeral

If choice B is selected set score to 1.

- 65.** Which of the following describes (auto) ignition temperature?

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

If choice C is selected set score to 1.

66. How is the Master or operator of a vessel required to keep the crew informed of the regulations concerning the discharging of garbage overboard?

- (A) Have each person read and sign a copy of the regulations.
- (B) Give each crewmember a copy of ANNEX V of MARPOL.
- (C) Call an all hands meeting before sailing.
- (D) Keep placards prominently posted.

If choice D is selected set score to 1.

67. You are the credentialed operator of a 100 GT towing vessel sailing coastwise. What percentage of the deck crew must be able to understand the language commonly used onboard the vessel?

- (A) 65%
- (B) 50%
- (C) 100%
- (D) 75%

If choice D is selected set score to 1.

68. A change of a documented vessel's name can only be made by which organization?

- (A) American Bureau of Shipping
- (B) Treasury Department
- (C) Commissioner of Customs
- (D) Coast Guard

If choice D is selected set score to 1.

69. Which term describes the force exerted by a propeller which tends to throw the stern right or left?

- (A) Thrust
- (B) Rotational force
- (C) Sidewise force
- (D) Slip

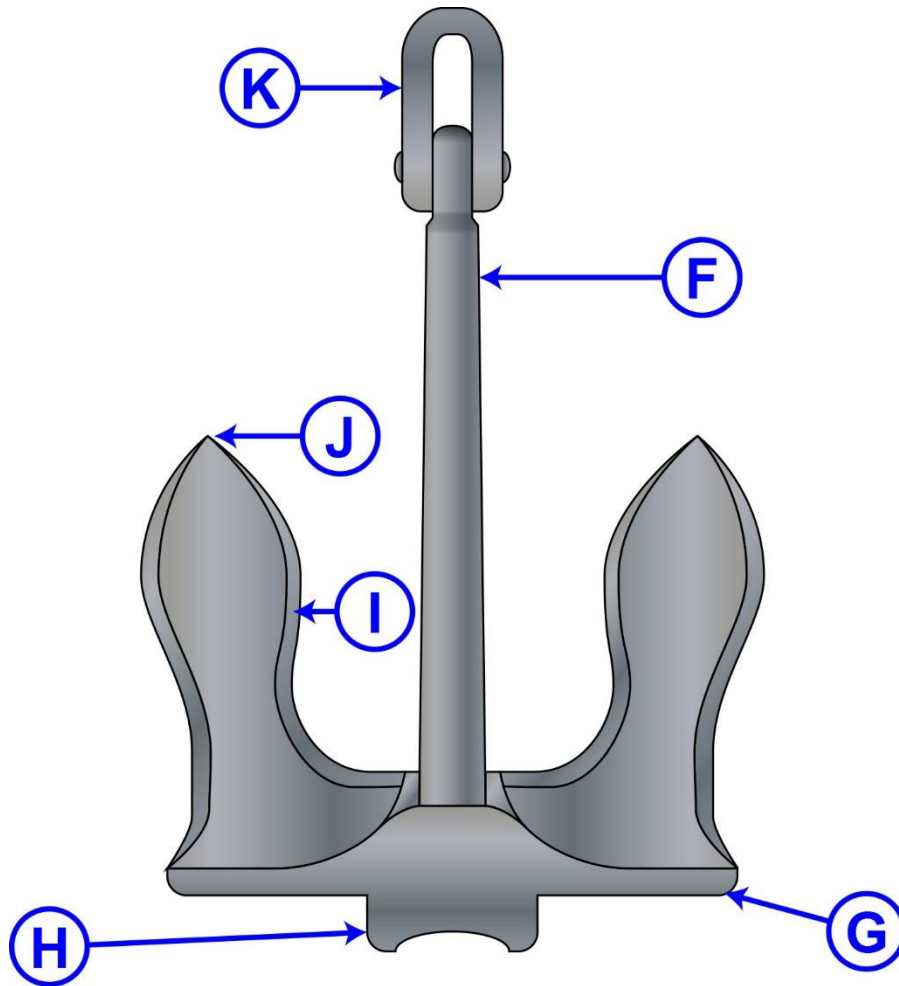
If choice C is selected set score to 1.

70. With the buttress securing system, where can containers of different heights be stowed?

- (A) Any location in the system
- (B) Only next to the buttress tower
- (C) Only on the bottom tier on deck
- (D) Only on the top tier

If choice D is selected set score to 1.

D038DG



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