U.S.C.G. Merchant Marine Exam

Second Mate to Master
Less than 1600 Gross Registered Tons

Q130 Deck General – Safety

(Sample Examination)
Choose the best answer to the following Multiple Choice Questions.

1. You are conducting trials to determine the maneuvering characteristics of your vessel. While making a turn, you take ranges and bearings of an isolated light. The results are shown in illustration D034DG below. What is the transfer for a turn of 90°?

   o (A) 355 yards
   o (B) 380 yards
   o (C) 410 yards
   o (D) 455 yards

   If choice B is selected set score to 1.

2. In general, how often are sanitary inspections of passenger and crew quarters made aboard passenger vessels in river service?

   o (A) Once each day
   o (B) Once each week
   o (C) Once each month
   o (D) Once each trip

   If choice C is selected set score to 1.

3. When two generators are operating in parallel, what will happen if one engine driving a generator shuts down?

   o (A) The generator that's still running will motorize.
   o (B) The running generator's circuit breaker will immediately trip on overload.
   o (C) Both generators will immediately shut down.
   o (D) The stalled generator's circuit breaker will trip on reverse power.

   If choice D is selected set score to 1.

4. Why are diesel engines considered safer than gasoline engines?

   o (A) They operate at a lower speed
   o (B) They can be easily reversed
   o (C) They are more heavily built
   o (D) The fuel used is less volatile

   If choice D is selected set score to 1.
5. You are on a 120,000 DWT loaded bulk carrier. What is the maximum safe docking speed when coming alongside?

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

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

6. When taking a Pilot from a pilot vessel in a seaway, which way should you head your vessel if the ladder is on the leeward side?

- (A) Sea on the weather bow and ship moving ahead slowly
- (B) Bow to the sea and no way on your vessel
- (C) Sea on the quarter with sternway on the ship
- (D) Sea on the lee quarter with ship moving ahead slowly

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

7. A seaman leaves a vessel before it sails from a foreign port. He informs the Chief Officer that he won't return. After the vessel sails, the Chief Officer finds the seaman's work clothes in his locker. How should the Master handle this matter?

- (A) Take no action.
- (B) Log the seaman as a deserter.
- (C) Log the seaman for misconduct.
- (D) Log the seaman as a fail to join.

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

8. You are docking a vessel. Which statement is TRUE?

- (A) You should go in with the current
- (B) You should approach the dock at a 90° angle
- (C) You should pass a mooring line to the dock and let the crew pull the vessel to
- (D) You should go in against the current

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

9. Which sequence is correct when launching a lifeboat stowed in gravity davits?

- (A) Operate limit switches, release gripes, lift brake
- (B) Release gripes, turn on emergency disconnect switch, release frapping lines
- (C) Release tricing pennants, turn on emergency disconnect switch, release frapping lines
- (D) Release gripes, lift brake, release tricing pennants

*If choice D is selected set score to 1.*
10. Which of the following medical conditions has symptoms of: burning pain with redness of the skin, an irritating rash, blistering or loss of skin and or toxic poisoning?

- (A) Asphyxia
- (B) Dermatitis
- (C) Chemical burn
- (D) Athlete's foot

If choice C is selected set score to 1.

11. Which statement about general average is TRUE?

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

If choice C is selected set score to 1.

12. How does a vessel's rate of turn change when entering shallow water?

- (A) It is faster.
- (B) It remains constant for varying propeller revolutions.
- (C) There is no change.
- (D) It is slower.

If choice C is selected set score to 1.

13. You are in charge of a U.S. documented vessel. Under title 46 of the United States Code, if you fail to report a complaint of a sexual offense, which action(s) may be taken against you?

- (A) Criminally charged and jailed
- (B) Civilly charged and fined
- (C) Held personally liable by the victim and sued
- (D) All of the above are correct.

If choice B is selected set score to 1.

14. To prevent loss of stability from free communication flooding you should take which action?

- (A) Close any opening to the sea in an off-center tank
- (B) Ballast double bottom wing tanks
- (C) Completely flood high center tanks
- (D) Close the cross-connection valve between the off-center tanks

If choice A is selected set score to 1.
15. The decision has been made to make landfall through a slight surf in an oar-propelled lifeboat. How should the sea anchor be utilized?

- (A) keep a strain on the towing and tripping lines to control the advancement of the craft as the waves roll onto the beach
- (B) secure the towing line, as the wave overtakes the craft pull on the tripping line and order backwater to advance to the beach
- (C) secure the tripping line, as the wave overtakes the craft release the towing line so the craft can advance to the beach
- (D) keep a strain on the tripping and towing lines, as the wave overtakes the craft release the tripping line and backwater

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

16. A ballasted vessel sinks enroute to a dry dock. Under these circumstances, the vessel's owner can claim which loss?

- (A) General average
- (B) Particular average
- (C) Constructive total loss
- (D) Actual total loss

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

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

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

18. Instructions to the crew in the use of all the ship's fire-extinguishing and lifesaving equipment shall be completed within which time frame?

- (A) Before sailing
- (B) Within one month and repeated quarterly
- (C) Within any two month period
- (D) Within one week of sailing

*If choice C is selected set score to 1.*
19. Which item is of the most use in getting a lifeboat away from a moving ship?

- (A) Sea painter
- (B) Fleming Gear
- (C) Boat hook
- (D) The falls

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

20. Your vessel has just run aground. Which of the follow would be one of the first actions you should take in this situation?

- (A) Apply RPM to one propeller
- (B) Sound all tanks
- (C) Back the engines full astern
- (D) Pump out all double bottoms

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

21. The Safety of Life at Sea Convention was developed by which organization?

- (A) American Institute of Maritime Shipping
- (B) American Bureau of Shipping
- (C) International Maritime Organization
- (D) U.S. Coast Guard

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

22. A vessel puts into the port of Kobe, Japan, to discharge cargo. The vessel contracts a local shipyard to have the hull chipped and scaled. If the vessel provides the primer and paint, which statement is TRUE?

- (A) You need NOT declare the cost of labor, since this is considered ship's personnel work.
- (B) You MUST declare the cost of labor, but no duty is charged since labor is involved.
- (C) You need NOT declare the cost of labor, since no duty is involved.
- (D) You MUST declare the cost of labor and pay duty.

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

23. While steaming at 17.0 knots, your vessel consumes 382 barrels of fuel oil per day. In order to reduce consumption to 223 barrels of fuel oil per day, what is the maximum speed the vessel can turn for?

- (A) 13.0 knots
- (B) 14.2 knots
- (C) 9.9 knots
- (D) 11.8 knots

*If choice B is selected set score to 1.*
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Illustrations: 2

24. Which command means to complete the stroke and level the oars horizontally with the blades trimmed fore and aft?

- (A) "Oars"
- (B) "Way enough"
- (C) "Up oars"
- (D) "Hold water"

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

25. What is NOT a function of the steam drum of a marine water-tube boiler?

- (A) Serves as a reservoir of boiler feed water
- (B) Collects steam exhausted from the turbines
- (C) Receives saturated steam from the generating tubes
- (D) Holds internal fittings for separation of moisture from steam

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

26. Vessels subject to SOLAS are required to have which of the following items onboard to aid in SAR communications?

- (A) AMVER certificate
- (B) Fast rescue boats
- (C) GMDSS equipment
- (D) VHF radio capable of transmission on channel 10

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

27. What is the primary use of antiseptics?

- (A) To prevent infection
- (B) To increase blood circulation
- (C) To reduce inflammation
- (D) To speed healing

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

28. Which agency assigns Load lines for U.S. vessels?

- (A) The U.S. Coast Guard
- (B) The Lloyd's Register of Shipping
- (C) The National Cargo Bureau
- (D) The American Bureau of Shipping

*If choice D is selected set score to 1.*
29. You are the credentialed Master of a 100 GT towing vessel sailing coastwise. What percentage of the deck crew must be able to understand any order spoken by the officers?

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

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

30. What should you avoid when administering first aid?

- (A) Unnecessary haste and appearance of uncertainty
- (B) Touching the patient before washing your hands
- (C) Any conversation with the patient
- (D) Instructing bystanders

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

31. What effect does bank suction have upon the hull of a vessel in shallow water?

- (A) The hull has a greater pressure on the land side of the bow
- (B) The hull has a lesser pressure on the land side of the bow
- (C) The hull has a greater pressure on land side of the stern
- (D) The hull has a lesser pressure on the land side of the stern

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

32. Which term defines "An electronic or electric device that indicates the rate of turn of a vessel,“?

- (A) Gyro-compass
- (B) Odometer
- (C) Swing meter
- (D) Magnetic compass

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

33. Your vessel is chartered under a time charter party. Under this type of charter party, what is your responsibility as Master?

- (A) It is to the owner for vessel administration and to the charterer for cargo operations and schedule
- (B) It is solely to the cargo shippers and consignees
- (C) It is solely to the owner, as under normal conditions
- (D) It is solely to the charterer for all matters pertaining to cargo and ship administration

*If choice A is selected set score to 1.*
34. What should you do in order to initiate CPR on a drowning victim?

- (A) Drain water from the lungs before ventilating
- (B) Start chest compressions before the victim is removed from the water
  - (C) Begin mouth-to-mouth ventilations
- (D) Do not tilt the head back since it may cause vomiting

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

35. What is the principle treatment of sunstroke?

- (A) Cooling, removing to shaded area, and lying down
- (B) Drinking ample amounts of ice water
- (C) Bathing the patient with rubbing alcohol
- (D) Give Stimulants to increase blood flow

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

36. 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) A short burst of ahead full with left full rudder
- (B) Stopping the engines
- (C) Backing full
- (D) Giving right full rudder

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

37. What is the effect of spreading oil on the open sea?

- (A) Lengthening the distance between successive crests
- (B) Increasing the height of the seas
- (C) Preventing the wave crests from breaking
- (D) Diminishing the height of the seas

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

38. How do you determine the weight of the vessel that is supported by the ground when a vessel has run aground?

- (A) This requires extensive calculation and is usually performed only by a naval architect not by a ship's officer.
- (B) Determine the point where aground and the draft at that point, then calculate it using the grounding formula.
  - (C) Use the hydrostatic tables and enter with the mean draft before grounding and the mean draft after grounding.
- (D) Use the inclining experiment formula and substitute the change of trim for the angle of list.

*If choice C is selected set score to 1.*
39. Before arriving at the first U.S. port from foreign, you must fill out a Crewman's Landing Permit. Which crewmember(s) require this permit?

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

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

40. 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.*

41. Which action must be taken for uncleared crew curios remaining on board during a domestic coastwise voyage after returning from foreign?

- (A) Items must be retained under locked security by the owner
- (B) Items must be noted in the Traveling Crews Effects Declaration
- (C) Items must be cleared prior to the next foreign voyage
- (D) Items must be listed in the Official Logbook and signed by crewmember

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

42. A vessel aground may have negative GM since the __________.

- (A) virtual rise of G is directly proportional to the remaining draft
- (B) lost buoyancy method is used to calculate KM, and KB is reduced
- (C) displacement lost acts at the point where the ship is aground
- (D) decrease in KM is equal to the loss of draft

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

43. A vessel has a charter party for one voyage to carry a full load of manganese from Durban, South Africa, to Baltimore, Maryland, at a stipulated rate per ton. Which type of contract is involved?

- (A) Bareboat charter party
- (B) Demise charter party
- (C) Voyage charter party
- (D) Time charter party

*If choice C is selected set score to 1.*
44. On the cargo manifest, which term is used to describe the weight of the cargo inside a box?

- (A) Rate weight
- (B) Gross weight
- (C) Net weight
- (D) Light weight

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

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

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

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

46. Which group is sighted as being the originator of the Safety of Life at Sea Convention?

- (A) American Bureau of Shipping
- (B) U.S. Coast Guard
- (C) American Institute of Maritime Shipping
- (D) International Maritime Organization

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

47. Which is an indication of reserve buoyancy?

- (A) Rolling period
- (B) Righting moment
- (C) Metacentric height
- (D) Freeboard

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

48. When does a cylinder in a two cycle engine experience combustion?

- (A) Every fourth stroke
- (B) Twice each crankshaft revolution
- (C) Every other crankshaft revolution
- (D) Once each crankshaft revolution

*If choice D is selected set score to 1.*
49. The supplement to the IOPP Certificate contains what type of data?

- (A) The trade routes upon which the vessel may operate.
- (B) A list of the underwriters who will assume financial responsibility in the event of an oil spill.
- (C) A checklist of the equipment installed for controlling the discharge of oil.
- (D) The grades of cargo that an oil tanker is permitted to carry.

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

50. If there is a discrepancy in the cargo totals, between the cargo onboard the vessel and the cargo listed in the cargo manifest, the more accurate account of cargo totals can be found in which item?

- (A) Portage Bill
- (B) Notice of Readiness
- (C) Charter Party
- (D) Bill of Lading

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

51. Your vessel arrives in port with sufficient fuel to steam 595 miles at 14 knots. If you are unable to take on bunkers, at what speed must you proceed to reach your next port, 707 miles distant?

- (A) 12.5 knots
- (B) 12.8 knots
- (C) 14.4 knots
- (D) 12.2 knots

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

52. Who is responsible for establishing watches aboard a U.S. vessel?

- (A) The Master of the vessel
- (B) The company that operates the vessel
- (C) The owner of the vessel
- (D) The company that charters the vessel

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

53. A Temporary Certificates of Inspection is effective until which time period?

- (A) When the classification society approval is issued
- (B) When Load Line Certificate is renewed and posted on the vessel
- (C) When the permanent Certificate of Inspection is issued and delivered
- (D) Once the SOLAS Certificate is issued

*If choice C is selected set score to 1.*
54. 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) Blankets
- (C) Foul weather clothing
- (D) Tobacco products

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

55. In the United States, which organization sets the load line markings?

- (A) IMO
- (B) American Bureau of Shipping
- (C) Federal Maritime Board
- (D) Coast Guard

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

56. You have determined the maneuvering characteristics of your vessel by taking the radar ranges and bearings of an isolated light while making a turn. The results are listed in illustration D035DG. Based on this data what is the advance for a turn of 30°? Illustration D035DG

- (A) 380 yards
- (B) 420 yards
- (C) 470 yards
- (D) 525 yards

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

57. Official proof of an American vessel's nationality is contained in which document?

- (A) Certificate of Documentation
- (B) Certificate of Inspection
- (C) Official Log
- (D) Shipping Articles

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

58. You are fighting a fire in a watertight compartment using hoses and salt water. Why may the stability of the vessel be reduced?

- (A) Due to progressive downflooding
- (B) Reduction of water in the storage tanks
- (C) An increase in free surface which reduces the metacentric height
- (D) A reduction of KG to the minimum allowable

*If choice C is selected set score to 1.*
59. The Master may require part of the crew to work when needed for which function?

- (A) Performing fire, lifeboat or other drills in port or at sea
- (B) Maneuvering, shifting berth, mooring and unmooring
- (C) Performing work necessary for the safety of the vessel, its passengers, crew or cargo
- (D) All of the above

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

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

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

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

61. You have abandoned ship and find yourself aboard a lifeboat in a heavy sea. Your boat is able to make way through the water. Which action should you take to prevent broaching?

- (A) Put the sea on your stern and run as fast as the boat will go
- (B) Take no action to prevent broaching as this is a recommended maneuver in a heavy sea
- (C) Place everyone as far forward in the boat as possible to keep the bow heavy
- (D) Head the boat into the swells to take them at a 30 to 40 degree angle on either bow and run as slow as possible without losing steerage

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

62. On a tankship, who is responsible for the sanitary inspections of the crew's quarters?

- (A) Master and Chief Mate
- (B) Master and Second Mate
- (C) Master and union delegate
- (D) Master and Chief Engineer

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

63. What is the proper direction of flow through a globe valve when the valve is installed to be in a normally open position?

- (A) From above the seat
- (B) Direction is unimportant
- (C) From below the seat
- (D) Depends on seat configuration

*If choice C is selected set score to 1.*
64. You are Master of a vessel that is sold in a foreign country after discharge of cargo. What is your responsibility to the crew in regards to return to the United States?

- (A) The crew can be employed on another United States vessel, but only if it is returning to the port of original engagement.
- (B) There is no requirement for return to the United States provided the voyage has exceeded 4 weeks duration.
- (C) You must provide passage to the port of original engagement.
- (D) You must provide air transportation to the nearest port of entry in the United States.

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

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

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

66. The turning circle of a vessel making a turn over 360 degrees is the path followed by which item?

- (A) Bow
- (B) Center of gravity
- (C) Bridge
- (D) Centerline

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

67. What is the purpose of a check valve?

- (A) Permits flow in one direction only
- (B) Passes air but not liquid
- (C) Passes liquid but not air
- (D) Regulates liquid flow

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

68. What affect does shallow water have on a vessel's stopping distance?

- (A) The stopping distance is longer.
- (B) The propeller is more effective when going astern in shallow water.
- (C) The stopping distance is shorter.
- (D) There is no difference in the stopping distance.

*If choice A is selected set score to 1.*
69. Your vessel is disabled and in imminent danger of grounding on a lee shore. The Master agrees to salvage services using Lloyd's Open Form of Salvage Agreement. Which is TRUE?

- (A) The salvage service is on a "no cure-no pay" basis.
- (B) Underwriters will repudiate the agreement if it is unsuccessful, due to their increased liability.
- (C) The salvage award will be decided by suit in Admiralty Court.
- (D) The salver becomes the owner of the vessel until the salvage award, if any, is paid.

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

70. A maritime lien may be placed against which item(s)?

- (A) Objects that are fixed and immovable, such as wharves
- (B) The vessel, cargo, or freight
- (C) Any assets that a ship’s owner may have
- (D) The vessel only

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