

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)
Entrance Examination for Admission to Ph.D/ MS (By Research)

Subject Name: **NAUTICAL SCIENCE**
Date: **19.01.2019**

Maximum Marks: **120**
Time: **2 Hours**

INSTRUCTIONS

1. Prior to the commencement of the examination, Candidate should check that this question paper does not have any unprinted or torn or missing pages or items, etc. If so, he has to get it replaced with a complete test booklet.
2. This Question Paper contains 120 questions. Each correct answer gets 1 mark. There correct answer gets 1 mark. There are no negative marks for wrong answers.
3. Candidate has to mark answers only in the OMR sheet provided. Follow the instructions given on the OMR sheet.
4. You have to bubble all your answer in Blue or Black Pen on the separate OMR Answer Sheet provided. See directions in the Answer Sheet.
5. More than one bubbled answer per question will make the question invalid for evaluation.
6. Please note that it is the candidate's responsibility to fill in the Roll Number carefully on the OMR sheet.
7. You have to enter your Roll Number in the Question Paper in the Box provided alongside.
8. DO NOT write anything else on the Test Booklet.
9. At the end of the examinations both OMR sheet and the Question booklet have to be handed over to the Invigilator.
10. Sheets for rough work are appended in the Question Paper at the end.
11. Essay Test Question is mentioned at the end of this Question Paper.

Note: Only one out of four answers is correct. Please read all the alternatives before answering.

1. A day is celebrated as the National Maritime Day in our country. This is in remembrance of which significant event?
 - a. Building of the first Indian Ship
 - b. Arrival of the first Indian ship in London
 - c. Establishment of the first Indian shipping company
 - d. Sailing of first Indian ship

2. In the absence of international shipping
 - a. Half the world would freeze
 - b. Half the world would starve
 - c. Nothing will happen
 - d. Half the world would starve and the other would freeze

3. Which is the largest Indian ship owning company?
 - a. Essar Shipping
 - b. Great Eastern Shipping
 - c. Shipping Corporation of India
 - d. Shreyes Shipping

4. Which country supplies maximum seafarers to the global shipping industry?
 - a. India
 - b. Philippines
 - c. China
 - d. Russia

5. Cargoes while loading on ships may be in following condition?
 - a. Packed
 - b. Loose
 - c. Inliquid form
 - d. All of these

6. Which port city is famous for ship scrapping?
 - a. Kolkata
 - b. Bhavnagar
 - c. Vizag
 - d. Mumbai

7. Ships are made of which main material?
 - a. Steel
 - b. Wood
 - c. Alloys
 - d. Composites

8. Which of these is important for the navigation of a ship while near the coast?
 - a. Tide
 - b. Current
 - c. Wind
 - d. All of these

9. Which of these would be in the functions of the Director General of Shipping?
 - a. Registry of ships
 - b. All of these
 - c. Certification of seafarers
 - d. Implementation of MS Act on Indian Ships

10. The Indian legislation for commercial ships is called?
 - a. Marine Insurance Act
 - b. Merchant Shipping Act
 - c. Admiralty Act
 - d. Maritime Shipping Act

11. Territorial waters of India extend to what distance from baseline?
 - a. 10 Nautical miles
 - b. 15 Nautical miles
 - c. 12 Nautical miles
 - d. 20 Nautical miles

12. Port of Kandla is situated in which state?
 - a. Gujarat
 - b. Maharashtra
 - c. Karnatak
 - d. West Bengal

13. If it is 4 p.m. in Chennai, time in London will be
 - a. Less than 4 pm
 - b. More than 4 pm
 - c. Noon
 - d. 4 am

14. Which system is used for navigating modern ships while in deep seas?
 - a. Star
 - b. Sun
 - c. Satellite
 - d. Moon

15. First modern Indian ship was built in a shipyard located in which city?
- Mumbai
 - Visakhapatnam
 - Kochi
 - Chennai
16. Who is the only Indian who has headed the International Maritime Organization in London?
- Sumati Morarjee
 - C.P. Srivastava
 - Ramaswami Mudaliar
 - Ravi Mehrotra
17. In which city does the Indian Maritime University have two campuses?
- Chennai
 - Mumbai
 - Kolkata
 - Kochi
18. Programs at the Indian Maritime University leads to a qualification in which discipline?
- All of these
 - Marine Engineering
 - Nautical Science
 - Naval Architecture
19. Sinking of Titanic led to development of which international convention?
- MARPOL
 - STCW
 - SOLAS
 - LOADLINE
20. Movement of cargo from Chennai to Kochi by ship will be referred as?
- Inland Waterway Shipping
 - Coastal Shipping
 - Deepwater Shipping
 - None of these

21. Breach of cyber security on board ship can affect which activity of the ship
- Navigation
 - Communication
 - Machinery Operation
 - None of these
22. Protection of marine environment covers which of the following areas?
- Discharge of pollutants from ship
 - All of these
 - Type of paint of the hull of the ship
 - Type of exhaust gases from the engine of the ship
23. Current quality management standard for certification is?
- ISO 9001:2008
 - ISO 9001:2008
 - ISO 9001:2015
 - ISO 14001:2015
24. Quality management certification is based on the standards set by which international organization?
- International Organization for Standardization
 - International Standards Organization
 - International Safety Organization
 - International Standards Office
25. Ships travel from one place to another. What is done so that a national identity is provided to a commercial ship?
- Names of the ships are broadcasted
 - Ships are registered in a country
 - Ships of one country travel together
 - National identity is not required as the ships move in open seas
26. Which of these ships provide assistance to the oil fields in the sea?
- Container ships
 - Offshore supply ships
 - Chemical tankers
 - Bulk carriers
27. Cost of transportation per unit is minimum in which mode of transportation?
- Aircraft
 - Train
 - Ship
 - Truck

28. Considering the same size, which type of ship will be most expensive?
- Gas carrier
 - Oil tankers
 - Container Ships
 - Bulk Carriers
29. Motor cars are transported by which type of ships?
- Heavy lift ships
 - Supply ships
 - Ro-ro ships
 - Container ships
30. What does ship owner earn to carry cargo from one place to another?
- Freight
 - Fare
 - Hire
 - Demurrage
31. Which of these ships carry crude oil?
- VLVV
 - ULCC
 - Suexmax
 - All of these
32. Process of refueling the ship is called?
- Bunkering
 - Ballasting
 - Berthing
 - Maneuvering
33. What is the function of propeller on ship
- Cooling the engines
 - Turning the ship
 - Moving the ship
 - Ballasting the ship
34. Which fuel is used on board ships?
- Heavy Oil
 - All of these
 - High Speed Oil
 - Diesel oil

35. A ship without cargo requires ballast. What material is used for this?
- Aluminum ingots
 - Steel Pipes
 - All of these
 - Sea Water
36. Vishwas sold an item for Rs.7,200 and incurred a loss of 20 per cent. At what price should he have sold the item to have gained a profit of 20 per cent.
- Rs.10, 800
 - Rs.8,950
 - Rs.11,200
 - Cannot be determined
37. The average age of 20 students of a section is 12 years. The average age of 25 students of another section is 12 years. What is the average age of both the sections combined together?
- 11.5 years
 - 11 years
 - 11.75 years
 - 12 years
38. A man runs 3 km per hour in still water. If the river is running at 1 km per hour, it takes 45 minutes to row to a place and back. How far is the place?
- 5 kms
 - 4 kms
 - 3 kms
 - None of these
39. A person invested Rs.2 lakhs at 12 percentage per annum interest for one year. If he invests Rs.500 more, he is eligible for 13 percentage per annum interest. How much more interest he would receive if he would have accepted the second option?
- Rs.2065
 - Rs.2165
 - Rs.2155
 - Rs.2045

40. If a car takes 40 minutes to cover a distance of 34 kms, what is its speed per hour?
- 61 kms
 - 51 kms
 - 50 kms
 - 45 kms
41. What should come in place of the question mark (?) in the following number series? 2 5 11 23 47 ?
- 95
 - 93
 - 98
 - 94
42. In a class of 60 students, 40 per cent can speak only Hindi, 25 per cent can speak only English and rest of the students can speak both the languages. Total how many students can speak English?
- 32
 - 28
 - 36
 - 15
43. Which of the following is not a correct statement about Infrasound?
- Infrasound has a frequency lower than 5000 Hertz
 - Infrasound is produced/detected by elephants and whales
 - Infrasound can travel longer distances than high frequency sound waves
 - All the above are correct
44. Germany will partner with India to develop which cities as smart cities?
- Jaipur, Ahmedabad and Ludhiana
 - Kochi, Bhubaneswar and Coimbatore
 - Allahabad, Ajmer and Visakhapatnam
 - Kakinada, Sholapur and Udaipur
45. A device for measuring the depth of sea is called
- Altimeter
 - Fathometer
 - Hydrometer
 - Manometer

46. A motorboat, whose speed in 15 km/hr in still water goes 30 km downstream and comes back in a total of 4 hours 30 minutes. The speed of the stream (in km/hr) is:
- a) 4
 - b) 5
 - c) 6
 - d) 10
47. One-third of Rahul's savings in National Savings Certificate is equal to one-half of his savings in Public Provident Fund. If he has Rs.1,50,000 as total savings, how much has he saved in Public Provident Fund?
- a) Rs. 30,000
 - b) Rs. 50,000
 - c) Rs. 60,000
 - d) Rs. 90,000
48. In a mixture of 60 litres, the ratio of milk to water is 2:1. If this ratio is to be 1:2, then the quantity of water to be further added to the mixture is:
- a) 20 litres
 - b) 30 litres
 - c) 40 litres
 - d) 60 litres
49. Three times the first of three consecutive odd integers is 3 more than twice the third. The third integer is:
- a) 9
 - b) 11
 - c) 13
 - d) 15
50. The effective annual rate of interest corresponding to a nominal rate of 6% per annum payable half-yearly is:
- a) 6.06%
 - b) 6.09%
 - c) 6.12%
 - d) 6.15%

51. Two ships are sailing in the sea on the two sides of a lighthouse. The angle of elevation of the top of the lighthouse is observed from the ships are 30° and 45° respectively. If the lighthouse is 100 m high, the distance between the two ships is:
- a) 173 m
 - b) 200 m
 - c) 273 m
 - d) 300 m
52. Identify the odd man out of following set of numbers: 396, 462, 572, 427, 671, 264
- a) 396
 - b) 427
 - c) 671
 - d) 264
53. In a lottery, there are 10 prizes and 25 blanks. A lottery is drawn at random. What is the probability of getting a prize?
- a) $\frac{1}{10}$
 - b) $\frac{2}{5}$
 - c) $\frac{2}{7}$
 - d) $\frac{5}{7}$
54. If $\log 2 = 0.3010$ and $\log 3 = 0.4771$, the value of $\log_5 (512)$ is:
- a) 2.870
 - b) 2.967
 - c) 3.876
 - d) 3.912
55. A pump can fill a tank with water in 2 hours. Because of a leak, it took $2\frac{1}{3}$ hours to fill the tank. The leak can drain all the water of the tank in:
- a) $4\frac{1}{3}$ hours
 - b) 7 hours
 - c) 8 hours
 - d) 14 hours
56. After the division of a number successively by 3, 4 and 7 the remainders obtained are 2, 1 and 4 respectively. What is the number?
- a) 80
 - b) 76
 - c) 41
 - d) 53

57. 6 men and 8 women can do as much work in a given time as 3 men and 13 women. The capacities of a man and a woman are in the ratio
- a) 3:8
 - b) 3:5
 - c) 5:3
 - d) 5:8
58. The gross income of a person is Rs.25,000. 20% of his income is exempted from income-tax and the rate of income tax is 5%. His net income in rupees is:
- a) 23,500
 - b) 24,000
 - c) 24,500
 - d) None of these
59. The profit earned after selling an article for Rs.1754/- is the same as loss incurred after selling the article for Rs 1492/-. What is the cost price of the article?
- a. Rs. 1523
 - b. Rs.1623
 - c. Rs.1689
 - d. Rs.3246
60. A tank is connected to pipes. One of those pipes can fill the tank in 15 minutes while the other can empty it in 10 minutes. If the tank is initially $\frac{3}{5}$ full and both pipes are simultaneously opened, how much time it will take to fill or empty the tank?
- a. 12 minutes
 - b. 15 minutes
 - c. 18 minutes
 - d. 10 minutes
61. What are 'barriers' in Safety Management System:
- a. Resistances encountered in the practice of safety
 - b. They are means and defences to manage safety
 - c. Risks in the management of safety
 - d. None of the above

62. Safety Science today views human errors as:
- Cause for all accidents on board
 - Deviations in human performances caused by unsafe conditions
 - Hindrances to management of safety on board
 - Reason to eliminate humans and go to autonomous ships
63. What is the definition of Risk:
- A condition that has the potential to cause harm
 - An incident that may occur
 - An undesired event which results into actual loss
 - Combination of the probability of an event and its consequences
64. Incident investigation is a requirement under which regulation:
- SOLAS
 - MARPOL
 - STCW
 - All of the above
65. What is worldscale:
- A system of establishing the freight rate for a given oil tanker's cargo
 - World map to scale
 - World Bank salary scale as reference
 - World health Organization reference scale
66. The car carrying capacity of a Ro-Ro ship is measured in:
- Metric Tons
 - Lane meters
 - TEUs
 - Cubic capacity
67. How is the Shipping industry contributing to efforts against Global Warming?
- Through Energy Efficiency regulation
 - Through controls on SOX and NOX
 - Through Polar navigation
 - None of the above

68. What is Condition of Class?
- Condition for assigning Class to the ship
 - Damage or defect that may affect the Ship's Class
 - The state of surveys and validity of certificate at any given time
 - All of the above
69. The dimensions of containers are fixed by?
- IMO (International Maritime Organization)
 - IICL (Institute of International Container Lessors)
 - ICS (International Chamber of Shipping)
 - ISO (International Organization for Standardization)
70. The significance of 'Ultra slow steaming' clause in charter party is
- Allows engines to operate below the cut-out point of the auxiliary blowers
 - Charterers can instruct Master to go ultra slow speed to save fuel consumption
 - Chief Engineer may not object for possible damage to engine
 - All of the above
71. Baltic Dry Index is
- Economic indicator issued by Baltic Exchange
 - Performance Index of Baltic Sea countries vessels
 - Economic indicator of Voyage charter rates
 - Performance index of Handysize bulk carriers
72. What is the significance of giving ship's speed at 85% MCR
- It is rating at which engine can operated most efficiently.
 - It is the Normal Continuous Rating of the ships engine
 - It is the contractual output for which propeller is designed
 - All of the above
73. What are vectors in Ship Sanitation Control
- Magnitude and direction of infectious agents
 - insects that normally transport an infectious agent
 - substances or plants in which infectious agents normally live
 - None of the above

74. If a ship is free of infection and contamination then the ship is issued

- a. Ship Sanitation Control Certificate.
- b. Maritime Declaration of Health.
- c. Ship Sanitation Control Exemption Certificate
- d. Ship's Medicine Chest Certificate

75. With regard to Ship Manoeuvrability characteristics which statement is true:

- a. The turning circle diameter at half speed will be much larger with both advance and tactical diameter increasing substantially, the time taken to execute the turn will be longer;
- b. The turning circle diameter at half speed will be more or less the same, no substantial change for practical purposes, the time taken to execute the turn will be longer;
- c. The turning circle diameter at half speed will be much smaller with both advance and tactical diameter reducing substantially, the time taken to execute the turn will be longer;
- d. None of the above, it will vary from vessel to vessel.

76. Rule 15 of IRPCS (COLREGS) states, 'when two power-driven vessels are crossing so as to involve risk of collision, the vessel which has the other on her own starboard side shall keep out of the way'. In this Rule, 'her own starboard side', means?

- a. The other power-driven vessel is located anywhere from right ahead or 000° relative bearing till the starboard beam or 090° relative bearing;
- b. The other power-driven vessel is located anywhere from close to right ahead relative bearing on the starboard side till right astern or 180° relative bearing;
- c. The other power-driven vessel is located anywhere from right ahead or very close to right ahead on the starboard side till 22.5° abaft the starboard beam, only her red sidelight being visible at night or corresponding equivalent aspect during day;
- d. The other power-driven vessel is located anywhere from either absolute right ahead or anywhere very close to right ahead relative bearing on either side till 22.5° abaft the starboard beam.

77. When navigating in restricted visibility of near zero, if you hear continuous sounding of the whistle (a fog-signalling apparatus) of another vessel from somewhere forward of the bridge of your vessel, the best action should be:

- a. Reduce speed of your vessel to the minimum at which your vessel can be kept on her course. If necessary take all her way off and in any event navigate with extreme caution until danger of collision is over;
- b. This signal indicates distress and the other vessel needs immediate assistance. Acknowledge the signal, consider proceed towards the signal

- with caution to render assistance if possible, inform other vessels in the vicinity and the closest shore based MRCC;
- c. Execute a large alteration of course to starboard since the following shall be avoided by Rule 19-d, 'an alteration of course to port for a vessel forward of the beam';
 - d. Contact the superintendent, marine operations manager or the DPA of the management office and act as per their advice, till then stop your vessel and maintain strict radio silence.

78. The difference between 'EEDI' and 'EEOI' is

- a. EEDI is Energy Efficiency Design Index and EEOI is Energy Efficiency Operations Indicator
- b. EEDI is Energy Efficiency Design Indicator and EEOI is Energy Efficiency Operations Index
- c. EEDI is Energy Efficiency Design Indicator and EEOI is Operations Indicator
- d. EEDI is Energy Efficiency Design Index and EEOI is Energy Efficiency Operations Index.

79. As per IMSBC Code - vital step to follow before accepting and loading Group A solid bulk cargo;

- a. Shipper provides TML certificate and Moisture Content declaration certificate
- b. Moisture Content lower than TML
- c. Trimming considered
- d. All of the above

80. The initial metacentric height after free surface correction for grain loading should be

- a. Not less than 0.10 meters
- b. Not less than 0.30 meters
- c. Not less than 0.15 meters
- d. Not less than 0.20 meters

81. Loadicators on board tankers are required as per which rules

- a. SOLAS
- b. STCW
- c. MLC
- d. MARPOL

82. Bunker Convention is applicable for

- a. Bunkers in all ships other than tankers
- b. Persistent oils only
- c. Bunkers in all ships
- d. Ships more than 1000 GT

83. 'Nox' pollution can be controlled through

- a. Good quality of bunkers
- b. Proper maintenance of main engines
- c. Scrubbers at the exhaust
- d. All the above

84. 1992 Fund Convention applied when

- a. Owner is exempted for genuine reasons
- b. There is insufficient insurance coverage
- c. Claim is in excess of limit of liability
- d. All of the above

85. Under MARPOL annex VI, sulfur limits for fuel oil outside ECA after 1 Jan 2020 is

- a. 0.5%
- b. 3.5%
- c. 4.50%
- d. 1.5%

86. As per the requirements to prevent alcohol abuse, administrations must establish a limit set to not exceeding

- a. 0.05 % blood alcohol,
- b. 0.30 mg/L in the breath,
- c. 0.10 % blood alcohol,
- d. 0.50 mg/L in the breath

87. What are the precautions with Electronic Equipment

- a. Information must be verified from alternate sources
- b. Know limitations and errors
- c. correct interface between equipment
- d. All of the above

88. With respect to technology integration as per e-Navigation principles, S-Mode means

- a. Simple mode – for the simplification of complicated technology
- b. Standard mode – standardized mode of operation and information display across ships
- c. Sophisticated mode – to highlight advances in technology
- d. Systems mode – to assist navigation agenda of the IMO

89. Duty officer as sole lookout on bridge is permitted provided

- a. It is daylight hours
- b. It is good visibility
- c. Vessel not in TSS
- d. All of the above

90. With reference to Annex IV of MARPOL Sewage means

- a. Drainage and other waste from toilets and urinals
- b. Drainage from medical premises via wash basins, wash tubs and scuppers
- c. Drainage from spaces containing living animals
- d. All of the above

91. When performing adult Cardiopulmonary resuscitation you give

- a. 2 slow breaths and 15 chest compressions
- b. 1 slow breath and 10 chest compressions
- c. 5 slow breath and 10 chest compressions
- d. 3 slow breath and 15 chest compressions

92. ECDIS is primarily an

- a. anti-collision device
- b. anti-grounding device
- c. both (a) and (b) above
- d. none of the above

93. Your vessel is broken down and being towed. What lights are displayed

- a. Mast head lights, sidelights and stern light
- b. Sidelights, stern light and towed vessel light
- c. Sidelights and stern light
- d. none of the above

94. If an enclosed space atmosphere has 50% by volume HC vapour and 50% air and a spark occurs
- nothing will happen
 - explosion will take place
 - Auto-ignition will take place
 - none of the above
95. The regulation on Energy Efficiency is included in MARPOL Annex VI primarily to control the emission of
- Sox and NOx
 - Carbon di-oxide
 - Ozone depleting substances
 - All of the above
96. A sailing vessel in a situation of no wind
- Cannot display NUC signals
 - Can display RAM signals
 - Cannot display RAM signals
 - Can display NUC signals
97. The term "Free in and out" means
- Lowest level of Security under ISPS Code when no restriction on people entering the ship
 - Party other than ship-owner bears cargo handling charges
 - No restriction on going ashore in a port
 - None of the above
98. In what cases might a vessel be held by the court as 'unseaworthy'
- Insufficient bunkers for the voyage
 - Improperly qualified officer
 - cargo not properly stowed or secured
 - All of the above
99. Vulnerabilities in Cyber Security pertain to loss of
- Confidentiality of data
 - Integrity of data
 - Authenticity of data
 - All of the above

100. Continuous Synopsis Record is a requirement under which rule
- ISPS Code
 - Class
 - ISM Code
 - MARPOL
101. USA is part of which MoU under Port State Control
- Paris MoU
 - Tokyo MoU
 - Caribbean MoU
 - None of the above
102. What must a Master do if he encounters seaborne migrants and refugees
- Give wide berth and continue on voyage with utmost dispatch
 - Render all assistance and inform Rescue Coordination Center
 - Inform the Flag State and await their instructions
 - None of the above
103. Ballast Water Exchange method requires
- Vessel must be more than 200 miles from land
 - Vessel must be in more than 200 meters of water depth
 - Pumping through should be 3 times the volume of the tank
 - All of the above
104. Enclosed Space entry drills are required to be carried out at following intervals
- Not exceeding two months
 - Not exceeding one month
 - Prior entry into enclosed spaces
 - Not mandated yet by any regulation
105. Reserve Buoyancy is more in
- Fresh water
 - Brackish water
 - Salt water
 - Remains same
106. What is a marine casualty
- Fatality
 - Serious injury
 - Loss of a person
 - All of the above

107. What saves more fuel on ships
- 10% less ballast
 - 10% less speed
 - 10% less power
 - 10% less steel weight
108. ISO 45001 is the management system standard for
- Cyber Security management
 - Social Accountability
 - Occupational Health and Safety
 - Energy Management
109. How is the shipping industry responding to control of GHG and climate change
- International Energy Efficiency Certificate
 - International Air Pollution Prevention Certificate
 - Contributing to CO2 reduction targets for various countries under UN Convention
 - Not yet mandatory for shipping industry
110. What is Parametric rolling
- When rolling period becomes synchronous with the waves period
 - Different rolling action at bow and stern due to fine bow lines and broad sterns
 - When vessel broaches to and lies broadside on in steep following seas,
 - None of the above
111. Which of the statements related to ISM certification audits is NOT correct?
- The certification audit is performed by the flag State or the Recognized Organization
 - A precondition for the issuance or endorsement of the SMC is the availability of a copy of the valid DoC
 - In the case of a non-conformity a corrective action has to be proposed by the company within max of 3 months
 - A major non-conformity has to be downgraded to a non-conformity prior to endorsement of the SMC

112. What method may be used to assess the effectiveness of existing risk control measures after an incident?
- Management review
 - System definition
 - Risk evaluation
 - Barrier analysis
113. Which method may be used to identify critical equipment or systems the sudden operational failure of which may result in hazardous situations?
- Declaration of critical equipment
 - Risk assessment
 - Test and inspection procedure
 - Checklist used from another company
114. As regards Vetting inspections, which statement below is NOT correct:
- The inspection declares which vessel passes or fails.
 - The inspections are carried out by accredited SIRE inspectors.
 - It aids in risk assessment for transportation
 - TMSA is designed to improve results of vetting inspections
115. With respect to SALVAGE convention which statement is NOT correct:
- It covers container in danger in water
 - Salver has recourse to maritime lien for unpaid dues
 - It covers floating oil platforms or drilling rigs engaged in exploration
 - Master has the authority to conclude a contract of salvage
116. Under MLC 2006 who is the owner to whom the convention applies in case of third party management
- The Ship Owner
 - The Crewing Manager
 - The Ship Charterer
 - The Ship Manager
117. Who has to carry out the Port Facility Security Assessment?
- The Harbour Master
 - The Port Facility Security Officer
 - The Recognised Security Organisation
 - The Port State Control Organisation

118. With regard to MLC 2006 which statement below is NOT correct?
- a. The Internal auditor who sails on ship is also covered under MLC
 - b. It applies to all ships regardless of tonnage engaged in commercial activities
 - c. Certificate is mandatory for ships more than 500 GT
 - d. MLC does not directly apply, Flag States have to enAct it.
119. Who is responsible for setting the security levels for port facilities?
- a. The Port Facility Security Officer
 - b. The Recognized Security Organization
 - c. The Contracting Government
 - d. The National Point of Contact
120. ISO 14001 is the specification standard for ?
- a. Security Management Systems for Supply Chains
 - b. Environment Management System
 - c. Ballast Water Management Sysytem
 - d. Energy Management Syatem

ESSAY TEST

(One Hour)

Write an essay on the topic of your proposed research covering the following components in not less than 400 words:

- Objective
- Brief background
- Data requirement
- Methodology proposed