

# **ASM(FG)**

# **WRITTEN**

## **FOR INDIAN COMPETENCY EXAM**



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## MASTER OF A FOREIGN GOING SHIP ADVANCED SHIPBOARD MANAGEMENT

Date: 10<sup>TH</sup> JAN-2023

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### Notes

1. Question No. 1 is compulsory and carries 50 marks.
2. Attempt any five questions from the remaining 6 and each question carries 30 marks.

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Q.1 a) A Ship of deadweight capacity of 8940T (winter), 9335T (summer) & 9738T (tropical) is to load a full cargo of heavy grain at Bahia Blanca for Kobe via Cape town and Miri. After discharging at Kobe via Cape town and Miri. After discharging at Kobe she is to be proceed in Ballast to Prince Rupert. From the information given below find the maximum amount of cargo she can load at Bahia Blanca and quantity of bunkers that should be taken there and at Cape Town and Miri, respectively, with the intention of leaving Kobe with the maximum possible amount. Bahia Blanca to Cape Town 10.5 days – summer Zone throughout. Cape Town to Miri 16 days- summer – tropical, in that order. Miri to Kobe 8 days-tropical for the 1st 1.5 days, then summer. Daily consumption – Fuel oil 16 tonnes, water 10 tonnes. (Port consumption to be ignored). Fuel prices per tonne are \$340 Bahia Blanca, \$335 Cape Town, \$306 Mir, \$329 Kobe. Reserves of fuel and water to be 5 days supply at all times of sailing. Allowance for stores, etc. consumed – Bahia Blanca to Cape town 15 tonnes, Cape Town to Miri 22 tonnes. Provision and stores (not including water) on board at Bahia Blanca to 128 tonnes.

b) State the Salient features of the Contract of Affreightment and how does it differ from the Contract of Carriage?

[\*\*Click Here to See the Answer\*\*](#)

Q.2 a) How is a typical Official Log Book (OLB) entry made? Prepare an official log book entry for the following:

- i) Record of musters and boat drill and
- ii) Record of inspection of crew accommodation.



b) Differentiate between Temporary Pass, Provisional Certificate of Registry and Permanent Certificate of Registry under Part V of the Merchant Shipping Act, 1958.

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Q.3 a) What are the problems posed by Article 13 and Article 14 of Salvage Convention towards Rule VI of York Antwerp Rules amended in 1994?

b) An oil tanker engaged in the carriage of persistent oil in bulk as cargo under your command is involved in an oil pollution incident. By describing the compensation mechanism for oil pollution damage as per CLC, 1992 and FUND, 1992 Conventions to which India is party. State the reasons(s) for the involvement of P & I club for the payment of compensation to the victims affected due to this pollution incident.

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Q.4 a) Explain, with sketches, the procedure for conducting a 'Running' moor together with the advantages and disadvantages and the necessary precautions to be taken.

b) What points are to be taken into account when as a Master you are requested to tow a vessel which is disabled but not in distress? Describe the procedures to be followed for safe towing.

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Q.5 a) Define piracy under the article 101 of UNCLOS 1982.

b) Define stowaway and describe the relevant provisions in section 205 of Merchant shipping act 1958 and IMO resolution 871 (20) which provide the duties of master in the event of detecting and successful resolution of stowaways on board.

c) Describe the function of IMO's "Stowaway focal point".

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Q.6 a) Outline the objectives of port state control. State the provisions of the IMO conventions applicable for this inspection.

b) The casualty code has entered into force internationally with effect from 1st July 2010. State the salient features of this code.



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Q.7 a) Discuss how as a Master you would comply with the following ISM code clauses which stress the concept of “Learning from past mistakes”.

- i) Clause 9 on “Accidents, hazards of occurrences reporting”.
- ii) Clause 12 on “Internal Audits”
- iii) Clause 1.2 on “contingency seek to improve safety management skills of shore and ship’s personnel”.

b) Write short notes on Navigation in Ice, through leads and lanes, related to weather forecast.

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## MASTER OF A FOREIGN GOING SHIP ADVANCED SHIPBOARD MANAGEMENT

Date: - 9<sup>th</sup> Mar-2023

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### Notes

1. Question No. 1 is compulsory and carries 50 marks.
2. Attempt any five questions from the remaining 6 and each question carries 30 marks.

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Q.1 a) A Charter party requires a bulk carrier to discharge using her own self un-holder, a B/L quantity of 32,500 t of fertilizer at the rate of 4500 t per working day. Of this, 21,000 t is to be discharged at the first port, and the remainder at the second port, SHEXUU. Laytime to commence 12 hours after NOR is tendered. Time from 1400 hours on Saturday or on the day preceding the holiday, till 0900 hours on Monday or on the day following the holiday, is not to count as lay time. The vessel arrived at the first port on Friday 21st March at 0210. NOR was tendered and accepted at 0945 hours, but discharge commenced only at 1900 hrs and was completed on Tuesday 25th March at 1215 hours no cargo work being done over the weekend. The vessel arrived at the final discharge port on Thursday 27th March and gave NOR at 0600 hrs same day and worked non-stop until completion of all discharge. The laytime statement prepared by Master at the end of the discharge, basis "Reversible Days", showed exact utilization of entire Laytime with "NO DEMURRAGE OR DESPATCH". Replicate the lay time statement prepared by Master and find when and at what time did the vessel complete her discharge.  
b) List the advantages of documentary credit system.

[\*\*Click Here to See the Answer\*\*](#)

Q.2 a) Discuss the following with respect to M.S. Act 1958 amended:  
i) Considering your Vessel met with a Collision at Sea, Actions required to be taken by you as Master.  
ii) What is the Purpose of Registration of Ships.  
b) State the Significance of Chapter V of SOLAS – Safety of Navigation in preparing a Passage Plan.



### [Click Here to See the Answer](#)

Q.3 Differentiate between: -

- a) General & Particular average
- b) CLC & fund convention.

### [Click Here to See the Answer](#)

Q.4 a) Sketch & describe a turning circle of a ship.

b) What are the factors which affect a turning circle?

### [Click Here to See the Answer](#)

Q.5 a) Wrt “Casualty Investigation code”. Describe the principles involved in Maritime safety navigation.

b) Wrt “Casualty Investigation code”. Explain how the confidentiality of information is maintained by the states when carrying out a marine safety navigation.

### [Click Here to See the Answer](#)

Q.6 a) Define a Stowaway. As per the FAL (37) 11 guidelines, what are the responsibilities of a shipmaster who finds any stowaway on board? Discuss BIMCO’s Stowaways Clause’ for time charter-parties.

b) Describe how ISM code has ensured the “Role and Responsibility of Company” in achieving Safety Management Objectives. State the various objectives in the Code and measures you will take as a Master in achieving them.

### [Click Here to See the Answer](#)

Q.7 a) Make an anchoring plan and enumerate the preparation for anchoring a deep draft vessel in a crowded anchorage.

b) Discuss the factors you may consider in determining the scope of the cable to be paid out.

### [Click Here to See the Answer](#)



## MASTER OF A FOREIGN GOING SHIP ADVANCED SHIPBOARD MANAGEMENT

Date: 13<sup>th</sup> April-2023

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### Notes

1. Question No. 1 is compulsory and carries 50 marks.
2. Attempt any five questions from the remaining 6 and each question carries 30 marks.

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Q.1 a) A ship's Tropical, Summer and Winter deadweight capacities are respectively 10286, 9948 and 9613 Tonnes. She is to load at Vancouver for London via the Panama Canal Calling at Los Angeles and Curacao for fuel. On departure she will have on board 370T of fuel. On Departure she will have on board 370 T of fuel, 180 T of Water and 12T of Stores. She consumes 27T of Fuel and 6T of Water and Stores Daily. Passages are estimated as follows:

- i) Vancouver to Los Angeles: 4 Days – All Summer
- ii) Los Angeles to Panama Canal: 9 Days – Summer – Tropical in that order.
- iii) Panama Canal to Curacao: 3 Days- All Tropical
- iv) Curacao to London: 12 Days – Tropical 2 Days. Then Summer for 4 days, then Winter for 6 days. Find the Maximum Weight of Cargo the ship can lift at Vancouver if she is to maintain a reserve of 6 Days of Fuel at all times. What quantities of fuel should she take in Los Angeles and Curacao, respectively, if fuel prices are lower at the latter Port.

b) Explain the following Charter Party Terms:

- i) Demurrage
- ii) Despatch
- iii) Reversible and Average Laytime.

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Q.2 Part XII of Merchant Shipping Act, 1958 deal with investigation and inquiry. In this context, write short notes on three of the following:

- i) Shipping Casualties
- ii) Preliminary inquiry and formal investigation
- iii) Inquiry into charges of incompetency or misconduct
- iv) Marine board



### [Click Here to See the Answer](#)

Q.3 a) Discuss the provisions of Nairobi Convention on wreck removal as applicable to India, with regards to following:

- i) Opt out clause
- ii) Time limits for action by affected state
- b) Differentiate between Hague Visby & Hamburg rules and what are the main features of the Hamburg rules in the interest of the Ship-Master.

### [Click Here to See the Answer](#)

Q.4 a) With reference to maneuvering in heavy weather explain in detail i) Synchronous rolling ii) Loss of intact stability iii) Broaching to

b) Explain in detail 2013 amendments to ISM code which came in force on 01st January 2015. What is the likely impact of these amendments onboard and in company's office?

### [Click Here to See the Answer](#)

Q.5 a) Discuss the role of each of the following: (any two)

- i) SAR Coordinator (SC)
- ii) SAR Mission Coordinator (SMC)
- iii) On Scene Coordinator (OSC)

b) Enumerate the procedures to be followed by the Master after a Stowaway is discovered onboard the Ship. What steps are to be taken by the Vessel to prevent Stowaways onboard.

### [Click Here to See the Answer](#)

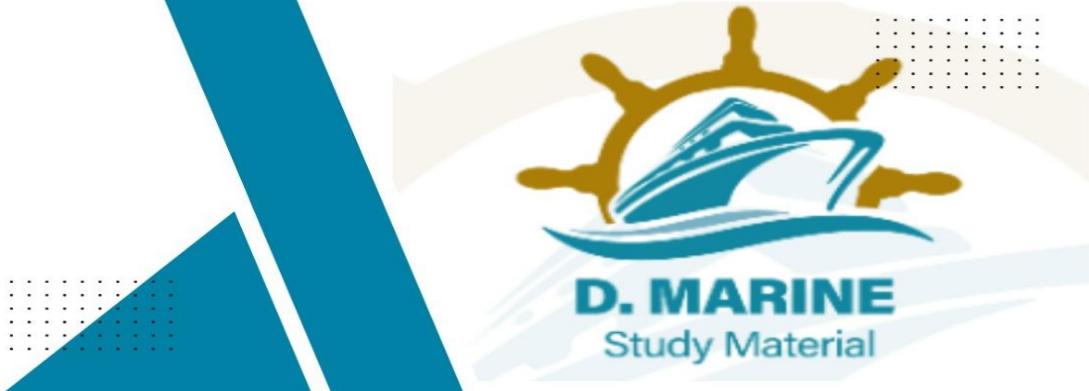
Q.6 a) What are the objectives and functions of Port State Control and how would you as a Master ensure that the vessel is fully prepared for any PSC inspection?

b) How would you as a Master conduct an inquiry on board in case of a major fire in the engine room?

### [Click Here to See the Answer](#)

Q.7 a) Discuss the contents of Ship board Oil Pollution Emergency Plan (SOPEP) under the provisions of MARPOL 73/78.

b) Discuss the various measures as Master in Motivating and reviewing the System in implementing Safety Environment Policy onboard your Ship.



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## MASTER OF A FOREIGN GOING SHIP ADVANCED SHIPBOARD MANAGEMENT

Date: 15<sup>th</sup> May-2023

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### Notes

1. Question No. 1 is compulsory and carries 50 marks.
2. Attempt any five questions from the remaining 6 and each question carries 30 marks.

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Q.1 a) A tanker has 23,400 tonnes of oil to load and discharge in 172 running hours. Bunkering time is excluded. Lay hours to commence 6 hours after N.O.R. is accepted. N.O.R. was accepted at the load port at 1200 hrs on Friday the 4th of May. Work ceased while bunkering from 0730 hrs to 1230 hrs on the 7th May. Loading finished at 1600 hrs on the 8th May, N.O.R. was accepted at the discharge port at 1500 hrs on the 18th May and discharging was completed at 1830 on the 22nd of May. The demurrage rate is 750 usd per day or pro-rata. Despatch money is not payable. Freight is due at usd 3.90 per tonne less 4% insurance. Calculate the amount due to the ship on completion of discharge.

b) Write short notes on any three of the following:

- i) International Association of Classification Societies
- ii) Oil Companies International Marine Forum
- iii) International Federation of Ship Master's Association
- iv) International Marine Pilots Association.

[Click Here to See the Answer](#)

Q.2 (a) With reference to MSA 1958 as amended, what is a "Shipping Casualty"? What is your obligation as Master with regard to reporting such a casualty?

b) Briefly describe the latest amendments to MARPOL relating to NOX emissions from ships. (10 Marks)



c) What is the implementation schedule for global sulphur cap with respect to the implementation schedule.

[\*\*Click Here to See the Answer\*\*](#)

Q.3 With respect to marine insurance write notes on: (30 Marks)

- (i) Insurable interest
- (ii) Warranties
- (iii) Utmost good faith
- (iv) Sue and Labour

[\*\*Click Here to See the Answer\*\*](#)

Q.4 a) What are the basic principles of the safe ice-navigation? How will you prepare your vessel before entering ice? (15 Marks)

b) Describe various items to be included in Master-Pilot Information exchange. State the legal relationship between Master and Pilot.

[\*\*Click Here to See the Answer\*\*](#)

Q.5 a) What are the various drills you will schedule for 03 months on your ship?

b) What is “Transverse Thrust” and how it can be used to advantage while maneuvering a ship.

[\*\*Click Here to See the Answer\*\*](#)

Q.6 a) What are the functions of Port state control and how would you as a Master prepare for PSC inspection?

b) What are the functions of classification societies?

[\*\*Click Here to See the Answer\*\*](#)

Q.7 a) The Hague-Visby Rule is generally incorporated under a Time Charter. State the responsibilities of the carrier and the shipper under this clause.

b) Describe and distinguish between Maritime Lien and Possessory Lien.

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## MASTER OF A FOREIGN GOING SHIP ADVANCED SHIPBOARD MANAGEMENT

Date: 13<sup>th</sup> July-2023

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### Notes

1. Question No. 1 is compulsory and carries 50 marks.
2. Attempt any five questions from the remaining 6 and each question carries 30 marks.

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Q.1 a) A vessel arrives in port at 0600 hrs on Thursday 25th March with 24,000 tons of coal. NOR was accepted at 0900 hrs on same day. Relevant Charter party terms are as follows:

- i) Cargo to be discharged at the rate of 4000 tons per WWD, SHEXUU.
- ii) Time to start once the NOR is accepted.
- iii) Time not to count from 1800 hr Saturday or a day preceding a holiday till 0800 hrs Monday or the following day of holiday.
- iv) Demurrage if any to be paid at the rate of 3000 USD per day and prorate, dispatch if any at the rate of 1500 USD per day and prorate for Laytime saved. Discharging commenced at 1200 hrs on 25th March and was completed at 1700 hrs on 4th April. On 28<sup>th</sup> March operations were carried out from 0800 hrs till 2000. Bad weather stopped work for 4 hrs on 28th and 3rd April from 1000 till 1400 hrs. 1st April was declared a public holiday and no work was carried out. Calculate the amount due to charterer or ship owner as the case be basis above details.

b) Write short note on any three?

- i) Shipped B/L ii) Through B/L iii) Stale B/L
- iv) Group age B/L v) Container B/L

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Q.2 (a) What are the factors required to register a ship under Indian flag? Draw reference to the MS ACT 1958?

b) What are the advantages and disadvantages of registering a ship under FOC?



[\*\*Click Here to See the Answer\*\*](#)

Q.3 On departure from a river port vessel touched the bottom. En-route she experienced rough seas. Describe in both case method for registering protest. Make a suitable format for each protest.

[\*\*Click Here to See the Answer\*\*](#)

Q.4 a) What precautions will you take prior entry into a port which is known to be a Stowaway port.  
b) What action will you take after a stowaway is discovered on board at high sea?

[\*\*Click Here to See the Answer\*\*](#)

Q.5 With the help of a Matrix describe the discharge criteria under Annex V of MARPOL as amended.

[\*\*Click Here to See the Answer\*\*](#)

Q.6 a) What factors will you consider before selecting an area for “Ship to ship transfer (STS)” operations?  
b) In a “Ship to ship transfer (STS)” operations, explain the procedure for going alongside the vessel to be lightened.

[\*\*Click Here to See the Answer\*\*](#)

Q.7 Discuss the procedure to proceed toward a Port of Refuge? Explain the methods by which all expenses incurred for this deviation can be shared between all interested parties in the common maritime adventure.

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## MASTER OF A FOREIGN GOING SHIP ADVANCED SHIPBOARD MANAGEMENT

Date: - 13<sup>th</sup> Sept-2023

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### Notes

1. Question No. 1 is compulsory and carries 50 marks.
2. Attempt any five questions from the remaining 6 and each question carries 30 marks.

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Q.1 a) A charter party provides for a bulk carrier to discharge 82,000t of iron at the discharge rate of 16000t per Weather Working Day of a 24 hours whether in berth or not, SHEX. NOR may be tendered on vessel's arrival but accepted within office hours between 0900 hrs to 1800 hrs Monday to Friday and 0900 hrs to 1400 hrs on Saturday. Laydays to commence 6 hours after N.O.R. is served. Time not to count between Noon on Saturday and 06:00 on Monday. Demurrage at \$20,000 per day and pro rata and dispatch at half the demurrage rate per day and pro rata. The vessel arrived and anchored on Friday, 17th November at 0800 hrs. Vessel left anchorage at 0200 hrs and all made fast at 0400 hrs. on 18th November vessel commenced discharging on Saturday, 18th November at 1200 hours NOR tendered and accepted at commencement of permissible time as per charter party. Discharging completed 30th November 1600 hours, shift timing at discharge port is 0400 hours to 2000 hours Monday to Friday and 0400 hours to 1200 hours on Saturday. There

was stoppage due to rain between 0600 – 1000 on 20th November, 10 am to 2 pm on 22nd and 24<sup>th</sup> November, 28th November was a public holiday.

Prepare a laytime statement and calculate the amount due to the ship owner or charterer.

b) What are the salient features of a 'Contract of Affreightment' and how does it differ from the Contact of Carriage'?

[\*\*Click Here to See the Answer\*\*](#)



Q.2 (a) What are the statutory obligations and duties of a Master in case of collision and accidents at sea under Part X of MSA, 1958? State the penalties applicable for these offences under the provisions of MSA, 1958.

b) State the significance Chapter V of SOLAS – Safety of Navigation in Preparing a passage plan.

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Q.3 a) Under what circumstances towage becomes salvage?

b) Define General Average Act as per York Antwerp Rules 1994? State the circumstances under which 'General Average' can be declared? Who hires and Average Adjustor and what is the role of an Average Adjustor?

[\*\*Click Here to See the Answer\*\*](#)

Q.4 a) Describe the emergency ship handling techniques to be followed in case of loss of propulsion, loss of steering and loss of tug assistance respectively in congested waters. What are the related international and national laws in respect of this?

b) Describe the various items to be included in the Master – Pilot information exchange. How is vicarious liability applied to pilot's action when in control of navigation?

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Q.5 a) The Search and Rescue (SAR) System has three general levels of coordination, namely SAR Coordinator (SC), SAR Mission Coordinate (SMC) and On-Scene Commander (OSC). Discuss the role of each of them for a successful SAR operation.

b) Discuss briefly the Best Management Plan (BMP) recommended for protection against Somalia based piracy developed by International Chamber of Shipping (ICS) along with other shipping industry organizations.

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Q.6 a) Describe the role of port state control and flag state control in ensuring safety on vessels and a cleaner environment.

b) State the role grounds for PSC intervention and grounds for subsequent detainment of a vessel.

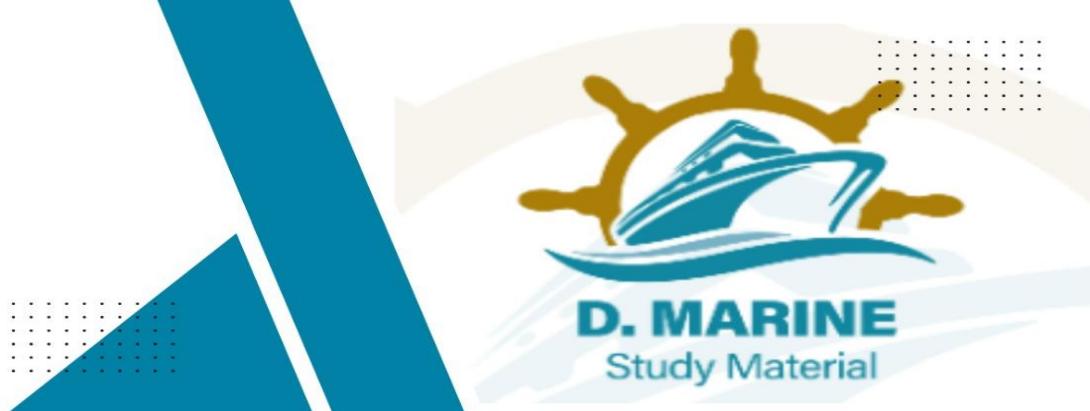


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Q.7 a) What are the duties of a Master on i) sighting ice or some other danger to navigation ii) on receiving warning of ice in the vicinity?  
b) What are the objectives of ISM Code? How detention of a vessel by port state control authority indicates failure of the Safety Management System on board?

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## MASTER OF A FOREIGN GOING SHIP ADVANCED SHIPBOARD MANAGEMENT

Date: - 15<sup>th</sup> Nov-2023

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### Notes

1. Question No. 1 is compulsory and carries 50 marks.
2. Attempt any five questions from the remaining 6 and each question carries 30 marks.

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Q.1 a) A product carrier of 9400 t (Summer), 9740 t (Tropical) and 8950 t (Winter) DWT is to load a full cargo of product oil from Curacao terminal for Kobe via Cape town and Miri. She has an option to bunker at Curacao, Cape town or Miri. Her daily consumption of bunker and fresh water are 18t and 10t respectively. She has to maintain five days reserve all the time. On arrival Curacao she had 150t of bunkers and 100t of fresh water. She is to load and discharge in 72 running hours. Laytime to begin 6 hours after tendering NOR, bunkering time excluded from laytime. At Curacao NOR was tendered at 0800 hrs on 16th April. Loading commenced at 1200 hrs on the same day. Vessel completed loading and the Bill of Lading was signed at 1100 hrs on 18<sup>th</sup> April. Her voyage details are as follows: Curacao to Cape Town – 10 days in summer zone. Cape Town to Miri – 16 days – 4 days in Summer, rest in Tropical Zone. Miri to Kobe – 8 days – 2 days in Tropical Zone, rest in Summer Zone. At Kobe, vessel tendered NOR at 1600 hrs, on 21st May. Discharging commenced at 2000 hrs on the same day. The vessel completed discharging at 0600 hrs, on 23 May. If Demurrage / Despatch are at 1600\$ / 1000\$ per day or pro rata and freight rate at 16 \$/ton, calculate the amount due to the vessel. (35 Marks)

b) As per carriage of goods by sea act, Hamburg rules are preferred by charterers and Hague / Hague Visby rules by ship owners. Discuss the reasons for the same.

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Q.2 (a) As per Merchant Shipping Act, what is constructed as an offence against discipline?

b) As a Master of a newly delivered ship from the yard, prepare a ship-specific garbage management plan as per MARPOL Annex V.

[\*\*Click Here to See the Answer\*\*](#)

Q.3 (a) As a Master, when can you declare General Average. Who are the interested parties and how is the General Average assessed.

(b) Explain the Warranties in Marine Insurance. How will you comply with these Warranties?

[\*\*Click Here to See the Answer\*\*](#)

Q.4 (a) What are the risks involved in anchoring your vessel in deep water. As a master how will you safeguard your vessel against these identified risks.

b) While doing a Ship-to-Ship transfer operations what are the precautions to be taken for safe operations.

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Q.5 a) What is datum as per IAMSAR. If the datum is not known, discuss the preferred SAR pattern.

b) As per FAL convention on stowaways, explain the duties of Master and ship owner/ manager when a stowaway is detected on board.

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Q.6 a) Explain the roles of: (i) Flag State (ii) Port State (iii) Classification Society in safe shipping. (15 Marks)



b) To facilitate effective inspections during drydocking, prepare a docking survey checklist.

[\*\*Click Here to See the Answer\*\*](#)

Q.7 a) What are the precautions you will take while navigating in ice regions.

b) What do you understand by the following terms as per ISM Code.

i) "Critical ship board Operation" List 5 of them, which comes under this category. ii) "Critical equipment". List 5 equipment which comes under this category

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