



PAST PAPERS

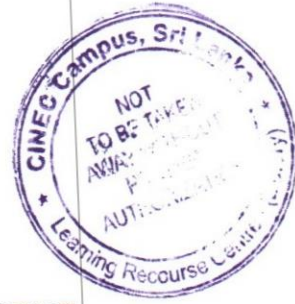
<i>Faculty</i>	<i>Department / Section / Division</i>
<i>Not Applicable</i>	<i>Learning Resource Centre</i>

Past Papers

# Deck Rating 2015-2022

<i>Document Control &amp; Approving Authority</i>	<i>Senior Director - Quality Management &amp; Administration</i>
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<i>1<sup>st</sup> Issue Date: 2017.011.30</i>	<i>Revision No.00</i>	<i>Revision Date: 16.012022</i>	<i>Validated by: Librarian</i>
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CINEC CAMPUS  
 Faculty of Maritime Sciences  
 Department of Navigation  
 EDUCATION & TRAINING COURSE : PRE SEA DECK RATING  
 COURSE CODE : ND- 0125 BATCH 023

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FINAL EXAMINATION

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Total Marks : 100%

Name : .....

Reg.No : .....

Date: \_\_\_\_\_ Pass mark 50% \_\_\_\_\_ Time allocated: 03 Hours

Underline or select the most suitable answer. Part I (each 2marks)

1. When the Deviation of the Compass is East,
  - A) Compass North lies West of True North.
  - B) Compass North lies East of Magnetic North.
  - C) Compass North lies West of Magnetic North.
  - D) Magnetic North lies East of Compass North.
2. Lubber line is a fixed line marked on a compass binnacle to indicate;
  - a) Exact North and South
  - b) Exact East and West
  - c) Exact Fore and Aft of a ship.
  - d) All above.
3. Life stock carriers are commonly known as;
  - a) Passenger Ships
  - b) Cattle Carriers
  - c) Car Carriers
  - d) Reefer Ships
4. When Keeping a lookout, the lookout man should have a,
  - a) Lookout by sight as well as by hearing
  - b) 360 degree lookout by sight and hearing
  - c) Lookout only in Forward
  - d) Lookout in a side where he is standing.
5. Disadvantage of Auto Pilot is;
  - a) Fuel Saving
  - b) Speed will be increased
  - c) Rate of altering cannot be controlled.
  - d) Man Power is not required.

6. As per the Rule no 15 of International Regulation for the Prevention of Collisions at sea, The vessel which has the other vessel on her own starboard side is the
  - a) Stand On Vessel.
  - b) Give Way Vessel.
  - c) Overtaking Vessel.
  - d) RAM Vessel.
7. Three all Round red lights in a vertical line "OR" a Cylinder shape indicates that the Vessel is
  - a) NUC
  - b) RAM
  - c) Sailing Vessel
  - d) Constrained by her draft
8. The meaning of "Alfa" Flag is
  - a) I have a Pilot on board
  - b) I require Pilot
  - c) I have a diver down. Keep well clear at slow speed.
  - d) My vessel is "healthy" and I request free pratique
9. National Ensign Flag is
  - a) The Flag of the Country that the ship is going to visit
  - b) The Flag of the country where the ship is registered.
  - c) The Flag to indicate that the ship is carrying dangerous cargo.
  - d) The Flag to indicate that the vessel is requesting Pilot.
10. Annex 5 of Marpol 73/78 is the,
  - a) Regulation for the prevention of pollution by Oil from ship.
  - a) Regulation for the prevention of pollution by Garbage from ship.
  - b) Regulation for the prevention of pollution by Sewage from ship.
  - c) Regulation for the prevention of Air pollution from ship.
11. The purchase is used to disadvantage when the Effort is being applied in the
  - a) Same direction of achieved movement of load.
  - b) Opposite direction of achieved movement of load.
  - c) Depends in the force of applied Effort.
  - d) Depends in the weight of the Load
12. Whenever you hear either General Alarm or Fire Alarm you have to
  - A) Go for your Lunch
  - B) Go for your work
  - C) Report to your assigned emergency station as soon as possible with your life saving appliance.
  - D) Report to your assigned emergency station slowly with your close friend.
13. Where will you find your assigned Muster Station?
  - a) It will be in your Contract.
  - b) It will be in the Article of Agreement
  - c) It will be in the Muster List.
  - d) It will be in the Company's Drug and Alcohol Policy.
14. Emergency Escape Breathing Devices (EEBD) shall not be used for
  - a) Fighting Fires
  - b) Entering Oxygen deficient voids or tanks
  - c) Worn by fire fighters.

- d) All above reasons.
15. Companies are supposed to appoint a person, as per ISM code, Who has the decision making power regarding the safety of his vessel is,
- Ship Security Officer (SSO)
  - Port Facility Security Officer (PFSO)
  - Designated Person Ashore (DPA)
  - Company Security Officer (CSO)

Answer all questions.

**Part II**

- Make a table with following headings and show the execution for the following helm orders.  
Headings: Order, Reply by helmsman, Action, Report by helmsman.  
Helm Orders: Hard a Port, Ease to 10, Mid ship, Meet her, Steer 125(T), Steady on 130(T)  
 Change over to Auto Pilot. (10 Marks)
- Vessel on hand steering and navigating in Panama Cannel. You are on the Wheel. The next helmsman is next to you and ready to take over the wheel. Describe the procedure of handing over and taking over the wheel. (10 Marks)
- Boxing of Compass with a beautiful picture. (07 Marks)
- List the special areas as per Annex 5 of Marpol 73/78. (03 Marks)
- Describe how will you secure the anchor for sea. (03 Marks)  
 Write down the list of General Protecting cloths used on ship. (03 Marks)
- Draw a Sketch of Pilot Ladder and name the parts. (05 Marks)
  - Describe how will you Rig the Pilot Ladder? (05 Marks)
- Vessel Navigating in Indian Ocean, You are on Look Out duty, with the heading of 075(T).  
 You saw three objects as follows;  
  - 2 Points on Port Bow.
  - In a direction of NNW
  - In a degree of 257(T)
 Make the report, for all three objects in all three ways, to inform your OOW. (08 Marks)
- What are the additional precautions to be observed in Piracy Prone Areas when the ship in Port? (05 Marks)
- What is the preparation to be taken prior to the commencement of receiving bunker. (05 Marks)
- Write the list of Emergency equipment on board. (03 Marks)
  - Write the list of Pyrotechnics and Life Saving Equipment on board. (03 Marks)

.....END OF QUESTION PAPER.....

Library



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CINEC CAMPUS (PVT) LTD  
Faculty of Maritime Sciences  
Department of Navigation

EDUCATION & TRAINING COURSE: PRE-SEA Training Program  
COURSE CODE: ND-125 - BATCH 178/179



00048

## MAIN EXAMINATION - QUESTION PAPER

- Answer all questions.
- Total Marks: 100(part 1 – 76 marks/ Part 2- 24 marks)

Date: 19.09.2022

Pass mark 50%

Time allocated: 03 Hours (Part 1 + Part 2)

### PART 1

1. Draw a diagram of a ship and insert and the relevant numbers of the following parts  
In the diagram. (12 Marks)

- |                         |                         |                     |
|-------------------------|-------------------------|---------------------|
| 1). Anchor              | 7). Chain locker        | 13). Cargo hold     |
| 2). Rudder              | 8). Bridge              | 14). Propeller      |
| 3). Funnel              | 9). Life boat           | 15). Fore peak tank |
| 4). Engine Room         | 10). After peak tank    | 16). Christmas tree |
| 5). Main deck           | 11). Monkey island      | 17). Accommodation  |
| 6). Forecastle deck     | 12). Steering gear flat | 18). Poop deck      |
| 19). Double bottom tank |                         |                     |

2. Write down the procedure of changing over from Manual steering to Auto Pilot. (10 Marks)

3. Draw and Name the part of anchors. (5 Marks)

4. List down the Classes of IMDG (10 marks)

5. Draw a diagram of a Gun Tackle rigged to Disadvantage and name all parts? (6 marks)

6. Write down short notes on Two type of Compasses used on board Merchant Ships (6 marks)

7. Write down 3 Pyrotechnics used under lifesaving appliances (3 Marks)

8. Write short notes of the following terms. (10 Marks)  
(a) SOLAS (b) MARPOL (c) STCW

9. The following helm orders are given in consecutive order write down the action you would take.

	ORDER	REPLY BY HELMSMAN	ACTION	FINAL REPORT
01	TEST THE GEAR			
02	HARD A PORT			
03	EASE TO TEN			
04	MIDSHIPS			
05	CHECK HER			
06	STEER 220°			
07	STARBOARD 20°			
08	STEADY			
09	FINISH WITH THE WHEEL			

(14 Marks)



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## MAIN EXAMINATION - QUESTION PAPER

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PRE-SEA TRAINING COURSE FOR DECK RATING - FINAL EXAM: 19 SEP 2022

TIME: 03Hrs (Part 1 + Part 2)

Total Marks: 100 (Part 1 - 76 marks/ Part 2 - 24 marks)

PART - 2

ANSWER ALL THE QUESTIONS

(Total Marks 24) (02 Marks each question)

### MULTIPLE QUESTION PAPER

- 1) Characteristics of Forward mast light
  - a) Yellow light , Arc 225°
  - b) White light , Arc 135°
  - c) Yellow light, Arc 135°
  - d) White light , Arc 225°
  
- 2) "Hotel" Flag means
  - a) I am altering my course to port
  - b) I require a pilot
  - c) I am altering my course to starboard
  - d) I have a pilot on board
  
- 3) Duties given in the muster list
  - a) Daily work duties of all crew and personnel onboard
  - b) Cargo work duties of all crew and personnel onboard
  - c) Emergency duties of all crew and personnel onboard
  - d) Watch keeping duties of all crew and personnel onboard

- 4) SART stand for
  - a) Search and Repeat Transponder
  - b) Search and Rescue Transporter
  - c) Search and Rescue Transponder
  - d) Search and Repeat Transporter
  
- 5) IMDG stand for
  - a) International Maritime Dangerous Goods
  - b) Internal Maritime Dangerous Goods
  - c) International Maritime Different Goods
  - d) Internal Maritime Different Goods
  
- 6) MLC stand for
  - a) Maritime Labour Connection
  - b) Maritime Label Convention
  - c) Maritime Labour Convention
  - d) Marine Label Convention
  
- 7) Echo sounder is used to
  - a) measure ship's speed
  - b) measure ship's draft
  - c) measure ship's under keel clearance
  - d) measure ship's freeboard
  
- 8) As per COLREG a vessel Restricted in their ability to manoeuvre but Stopped shall exhibit where they can best be seen
  - a) Three all-round lights in a vertical line where they can best be seen. The highest and lowest of these lights shall be red and the middle light shall be white
  - b) Three all-round lights in a vertical line where they can best be seen. The highest and lowest of these lights shall be white and the middle light shall be red
  - c) Three all-round red lights in a vertical line where they can best be seen
  - d) Three all-round lights in a vertical line where they can best be seen. The highest and lowest of these lights shall be red and the middle light shall be green
  
- 9) Lee side of a ship is
  - a) The fore part of ship
  - b) The aft part of ship
  - c) The side of a ship sheltered from a wind
  - d) The side of a ship wind blowing



10) Reciprocal Course Means

- a) The course the vessel is steering
- b) The course opposite to the vessel is steering.
- c) Direction to a light house
- d) The course laid on the chart

11) In compass a point is equal to

- a)  $20^\circ$
- b)  $11.52^\circ$
- c)  $15^\circ$
- d)  $11.25^\circ$

12) The length of one shackle in anchor chain

- a) 12.25 meter
- b) 17.5 meter
- c) 10 meter
- d) 27.5 meter



CINEC Campus (pvt) Ltd  
 Approved for Quality Management System

Pre Sea Engine Rating Batch- 20-002

Faculty	Department
Not Applicable	CINEC Campus- Jaffna

Answer any 10 Question (each 10 marks)

**PART II**

1.
  - A) State 3 differences between Marine 2 Stroke Engine and a 4 Stroke Engine. (3 marks)
  - b) Draw a 2 Stroke Engine Timing Diagram and name it. (5 marks)
  - c) What is the purpose of Intercooler in the Turbocharged Engines? (2 marks)
2.
  - A) What are the Potential hazards in the Enclosed Space? (3 marks)
  - b) Give 2 names of Instruments used to check Enclosed Space atmosphere (2 marks)
  - c) What precautions you will take before enter the Enclosed Space? (5 marks)
3.
  - a) Write down 4 personal Protective Equipment's and their use. (4 marks)
  - b) Write down 3 Manufacturing Process. (3 marks)
  - c) Write down 3 Heat treatment Process. (3 marks)
4.
  - a) What is the purpose of Steam on board, state 3 reasons. (3 marks)
  - b) Write down 5 Boiler mounting and their use. (5 marks)
  - c) State the difference between Purifier and a Clarifier. (2 marks)
5.
  - a) Write down 2 Refrigerants use in the Refrigeration System. (2 marks)
  - B) Draw a sketch of a Basic Refrigeration System. (4 marks)
  - c) Briefly explain main components of above System. (4 marks)
6.
  - a) Name the Chucks commonly used for holding Work piece in the Lathe Machine. (2 marks)
  - b) Write down 2 type of Drilling Machine. (2 marks)
  - c) Draw a Sketch and name, one of below Measuring Instrument. (6 marks)
    - i) Vernier Caliper
    - ii) Micro meter
7.
  - a) Write down 2 Deck Machineries located onboard. (2 marks)
  - b) Write down 2 Rudder Actuating mechanisms in the Steering System. (2 marks)
  - c) Draw a sketch of a Centrifugal pump and name all relevant parts. (6 marks)
8.
  - a) State 4 Emergencies can be happened onboard. (4 marks)
  - b) Briefly explain 3 of below terms. (6 marks)
    - i) Muster Station
    - ii) Ventilation Flap
    - iii) Quick Closing Valve
    - iv) Muster List
    - v) CO<sub>2</sub> Fixed Installation System
9.
  - a) State all MARPOL73/78 Annexes of Pollution Prevention . (4 marks)
  - b) Draw a Sketch of one of below Equipment and name it. (6 marks)
    - i) Sewage Treatment Plant
    - ii) Oily Water Separator

10. a) Draw a Fire Triangle and name it. (2 marks)  
b) Write down 4 types of Portable Fire Extinguishers and their color code (4 marks)  
c) Briefly explain precautions and arrangements before a Bunkering operation. (4 marks)
11. a) State 2 types of Coolers use in the Engine Room. (2 marks)  
b) State 2 types of Lub.Oil Filters. (2 marks)  
c) Draw a sketch of one of below Valves. (6 marks)  
    i) Globe Valve  
    ii) Gate Valve
12. a) Write down 4 type of Watches in the Engine Room. (2 marks)  
b) Briefly Explain, how you take over a Deep Sea Watch in the Engine Room. (5 marks)  
c) Write down 3 entries to be written on the Engine Log Book. (3 marks)



Pre Sea Engine Rating Batch- 20-002

Faculty	Department
Not Applicable	CINEC Campus- Jaffna

Answer all MCQ Questions (each 4 marks.)

Time allowed: 3 hours

1. Which of the following is an enclosed space?
  - a) Galley
  - b) Cabin
  - c) Bridge
  - d) Double Bottom Tank
2. DPA means
  - a) District Personal Assistant
  - b) Designated Person Ashore
  - c) Delivery pump Accessories
  - d) None of above
3. In the Purifier Gravity disc determine
  - a) The quality of separation
  - b) Bowl RPM
  - c) Sludge particle removal
  - d) Motor Ampere
4. What is the name of tool for cutting light thickness metal Sheet
  - a) Hacksaw
  - b) Snip
  - c) Scriber
  - d) Flat File
5. Annealing of Steel means,
  - a) Heating up to 950°C and rapid cooling
  - b) Heating up to 950°C and slow cooling
  - c) Heating up to 950°C and cooling by air
  - d) None of above
6. Which is not a part of a Fuel Injector
  - a) Nozzle
  - b) Needle Valve
  - c) Compression Nut
  - d) Rocker Arm
7. MLC 2006 means
  - a) Marine Local Council
  - b) Maritime Labor Convention, 2006
  - c) Mechanical Labor Convention, 2006
  - d) None of the above
8. Which is not considered as an Emergency
  - a) Grounding
  - b) Fire
  - c) Abandon Vessel
  - d) Sailing

9. `Evaporative Distillation Fresh Water Generator which used to heat sea water
  - a) Jacket Cooling Water
  - b) Lubricating Oil
  - c) Sea Water
  - d) None of above
10. IMDG states
  - a) Internal Marine Deck Goods
  - b) International Maritime Dangerous Goods
  - c) International Manual of Dangerous Goods
  - d) None of above
11. Steering Gear is the equipment to
  - a) Turn the ship during sailing
  - b) Move the Vessel Forward or Stern
  - c) Start the Main Engine
  - d) Start the Emergency Fire Pump
12. Enclosed Space Defines
  - a) Limited Access to enter and exit
  - b) Not ventilated area
  - c) Not designed for working purpose
  - d) All of above
13. What are the checks you will do on a running Centrifugal Pump
  - a) Abnormal sound or vibration
  - b) Any leak from Seal
  - c) Suction and Discharge Pressure
  - d) All of the above
14. To extinguish Cooking oil fire in the Galley
  - a) Apply water
  - b) Use Fire Blanket
  - c) Through oil outside
  - d) None of above
15. Advantages of a Center Cooling System are
  - a) Corrosion can be kept to a minimum
  - b) Length and maintenance sea water piping is reduced
  - c) Maintenance of Valves and Filters is reduced
  - d) All of the above
16. The Windlass is the
  - a) Usual Anchor handling Device
  - b) Part of a Cargo Gear
  - c) Equipment to measure wind speed
  - d) None of above
17. During Bunkering, should be hoist which color Flag
  - a) Blue
  - b) Red
  - c) Green
  - d) Yellow
18. Reason for Tappet Clearance is
  - a) For proper Injection
  - b) For proper atomization
  - c) For thermal expansion of Valves
  - d) For proper lubrication

19. Which is not a stroke of the 4 Stroke Cycle?
- Suction
  - Compression
  - Discharge
  - Exhaust
20. Which is not a part of the Marine 2Stroke Engine?
- Cylinder Head
  - Stuffing Box
  - Cross Head
  - Inlet Valve
21. When the CO<sub>2</sub> Alarm rings in the Engine Room,
- Get ready to fight fire
  - Abandon Ship
  - Leave the Engine Room
  - Report to the chief Engineer
22. Before you mount the Abrasive Wheel
- Mounted only by a competent person
  - Should be brushed and closely inspected
  - Soundness can be checked by tapping it for any crack
  - All of the above
23. What should be the oil content in the discharging bilge water through Monitoring Device
- 17 ppm
  - 20 ppm
  - Less than 15 ppm
  - More than 20 ppm
24. The purpose of Sign and Notice
- To make the place beautiful
  - Information and warning hazards
  - To read when you have nothing to do
  - to decorate the wall
25. Which is not a part of a Centrifugal Pump?
- Volute Casing
  - Mechanical Seal
  - Crank Shaft
  - Wear Ring

Pre Sea Training Deck Rating Batch No. 020 Final Exam 20<sup>th</sup> September 2020

Faculty	Department
Not Applicable	CINEC Campus- Jaffna

TIME: 03HRS

TOTAL MARKS: 100

PART - IANSWER ALL THE QUESTIONS (2 MARKS EACH)

- 1) Risk assessment shall be carried out,
  - a) During any operation
  - b) Before the commencement of operation
  - c) End of the operation
  - d) Any time
- 2) Permit to work is valid for not more than
  - a) 8 hours
  - b) 16 hours
  - c) 24 hours
  - d) 10 hours
- 3) Colour code used on-board for the safety sign is,
  - a) Blue
  - b) Green
  - c) Red
  - d) Yellow
- 4) Sounding Rod & Line is used
  - a) To lower/ hoist a paint bucket
  - b) To take sounding of a fresh water tank
  - c) To measure the Depth of the sea water
  - d) To measure the length of a pilot ladder
- 5) Correct Order of Security levels 1-2-3 in ISPS Cord are
  - a) Heightened- Exceptional- Normal
  - b) Exceptional-Heightened - Normal
  - c) Normal- Heightened - Exceptional
  - d) Heightened Normal - Exceptional
- 6) Yellow Color Buoys are used to
  - a) To Mark Special area
  - b) To Mark Anchorage
  - c) To Mark Entering Harbor
  - d) To Mark Safe Water area

- 7) A vessel more than 50 m in length at anchor shall exhibit.**
- a) In the fore part an all-round white light and at or near the stern an all-round white light lower level of fore part.
  - b) One red light on the main mast.
  - c) One all-round white light on the main mast.
  - d) In the fore part an all-round white light and at or near the stern an all-round white light higher level of fore part.
- 8) A combination ladder to be used if the pilot ladder height is more than**
- a) 7 m
  - b) 12 m
  - c) 9 m
  - d) 10 m
- 9) During Bunkering what type of Risk you Expect**
- a) Fire/ Drowning/ falling overboard
  - b) Sea pollution/ Drowning/ Falling Overboard
  - c) Collision / Falling overboard/ Drowning
  - d) Fire/ collision/ sea pollution
- 10) When will you hoist the national flag in Half Mast**
- a) National day
  - b) Queen Birth day
  - c) Day of mourning
  - d) World environment day
- 11) In the International Code of Signals , Flag "A" meaning is**
- a) I require a Pilot
  - b) I require assistance
  - c) I have a diver down; keep well clear at slow speed
  - d) I have a Pilot on board
- 12) Sea farers medical certificate is only valid for**
- a) One year
  - b) One and a half years
  - c) Two years
  - d) Two and a half years
- 13) Sea farers while performing watch duties should not consume alcohol to a limit greater than**
- a) 0.05% Blood Alcohol Level or 0.25mg/l alcohol in the breath
  - b) 0.10% Blood Alcohol Level or 0.25mg/l alcohol in the breath
  - c) 0.05% Blood Alcohol Level or 0.50mg/l alcohol in the breath
  - d) 0.10% Blood Alcohol Level or 0.50mg/l alcohol in the breath
- 14) Minimum amount of rest in any 7 days period is**
- a) 80 hours
  - b) 77 hours
  - c) 74 hours
  - d) 83 hours
- 15) Anchor aweigh means**
- a) Anchor cable leading short stay
  - b) Anchor cable up & down
  - c) Anchor is clear of the bed
  - d) Anchor is in the cock-o-bill position





Pre Sea Training Deck Rating Batch No. 020 Final Exam 20<sup>th</sup> September 2020

Faculty	Department
Not Applicable	CINEC Campus- Jaffna

TIME: 03HRS

TOTAL MARKS: 100

**PART - II**  
**ANSWER ALL THE QUESTIONS**

- 1) Draw a sketch of a Luff tackle rigged to advantage and name all parts (05 marks)
- 2) Draw a sketch of a cross section area of bulk carriers cargo hold and name all parts (10 marks)
- 3) Draw a sketch of a stock anchor and name all parts (10 marks)
- 4) Write down 5 of the international distress signals (10 marks)
- 5) Write down 5 special areas under MARPOL Annex V (garbage) (05 marks)
- 6) Write down the types of Fire Extinguishers and colour coding (10 marks)
- 7) Write down the procedure of chipping and painting on a corroded metal surface (10 Marks)
- 8) List out what are the main types of ropes used on board merchant vessel (10 Marks)

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Document Control & Approving Authority		Consultant - Quality Management	



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CINEC CAMPUS (PVT) LTD  
Faculty of Maritime Sciences  
Department of Navigation

EDUCATION & TRAINING COURSE: PRE SEA Training Program  
COURSE CODE: ND-0125 - BATCH 170/171

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## MAIN EXAMINATION - QUESTION PAPER

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- Answer all questions.
- Total Marks: 100

Date: 16.07.2020

Pass mark 50%

Time allocated: 03 Hours

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### PART 1

1. The following helm orders are given in consecutive order write down the action you would take. (12 MARKS)

	ORDER	REPLY BY HELMSMAN	ACTION	FINAL REPORT
01	TEST THE GEAR			
02	HARD A PORT			
03	EASE TO TEN			
04	MIDSHIPS			
05	CHECK HER			
06	STEER 210°			
07	STEER 220°			
08	MIDSHIPS			
09	STARBOARD 20°			
10	STEADY			
11	HARD A PORT			
12	FINISH WITH THE WHEEL			

2. Box the compass into 32 points and name Cardinal / Inter Cardinal/ Intermediate and by points separately. (12 MARKS)

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3. Draw and show How to mark the 3rd joining shackle? (10 Marks)

4. (i). Draw diagram and colure the Isolated Danger Buoy. (6 Marks)

(ii). Draw diagrams of cardinal marks using color and top marks? (6 Marks)

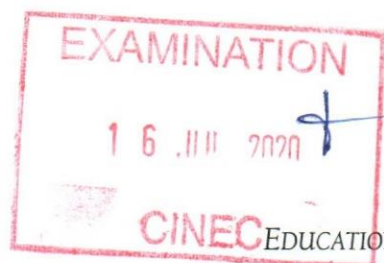
5. Write down the “special areas for garbage” under MARPOL Annex V? (10 Marks)

6. Write short notes of the following terms. (10 Marks)

(a) SOLAS (b) MARPOL (c) STCW (d) MLC

7. Write down 9 classes of IMDG cargo (10 Marks)

End



CINEC CAMPUS (PVT) LTD  
Faculty of Maritime Sciences  
Department of Navigation  
EDUCATION & TRAINING COURSE : PRE SEA Training Program  
COURSE CODE : ND-125 - BATCH 170/171

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## MAIN EXAMINATION - QUESTION PAPER

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PRE-SEA TRAINING COURSE FOR DECK RATING - FINAL EXAM 16<sup>th</sup> JULY 2020

TIME: 03Hrs

TOTAL MARKS: 100

PART - 2

ANSWER ALL THE QUESTIONS

(Total Marks 24) (02 Marks each question)

### MULTIPLE QUESTION PAPER

1. **Livestock carrier carries:-**
  1. Bulk cargo
  2. Passengers
  3. General cargo
  4. live animals in bulk
  
2. **Reciprocal Course Means :-**
  1. The course the vessel is steering
  2. The course opposite to the vessel is steering.
  3. Direction to a light house
  4. The course laid on the chart

3. **Hand Lead Line is Used :-**

1. To measure the depth of the water
2. To take a sounding of a water tank
3. To lower / hoist a paint bucket
4. To measure the length of a pilot ladder

4. **What are the equipment used for search and rescue operations when vessels in distress ?**

1. EPIRB , SART & AUTO PILOT ,
2. EPIRB , & AUTO PILOT
3. SART , & AUTO PILOT
4. EPIRB , & SART

5. **What are the Types of Steering Methods used on Ships :-**

1. Manual Steering and Emergency Steering
2. Emergency Steering and Auto Pilot Steering
3. Automatic Pilot Steering and Manual Steering
4. Manual Steering /Automatic Pilot Steering and Emergency Steering

6. **Cardinal Marks are used To :-**

1. To Mark a Channel
2. To Mark Extended Dangers
3. To Mark Anchorages
4. To Mark a Entrance

7. **Underway Means :-**

1. A Vessel at Anchor
2. A Vessel aground
3. A Vessel not at Anchor / Not Made Fast to Ashore / Not Aground
4. A Vessel in distress

8. **Which is the Flag to be hoisted when Pilot is required**

1. Alfa
2. Golf
3. Hotel
4. Bravo

9. **In compass a point is equal to:-**

1. 20°
2. 15°
3. 11.°
4. 11.25°

10. **Duties given in the muster list are :-**

1. Watch keeping duties
2. Watch Keeping Roster
3. Emergency duties for crew in an emergency
4. Day work duties

11. **The length of anchor chain is**

1. 15 meter
2. 20 meter
3. 10 meter
4. 27.5 meter

12. **A Continuous Sounding of the ship Whistle is**

1. A Distress Signal
2. A Fog Signal
3. To indicate a Vessel not Steering properly
4. A Signal Before Anchoring

End.



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PRE-SEA TRAINING COURSE FOR DECK RATING – 12 DECEMBER 2019

PART - I

TOTAL MARKS: 20

ANSWER ALL THE QUESTION

Multiple Choice Questions. Answer all questions

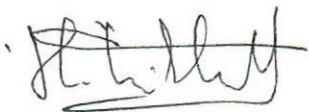
(2 marks for each)

- 1) Risk assessment shall be carried out,
  - a) During any operation
  - b) Before the commencement of operation
  - c) End of the operation
  - d) Any time
- 2) Vessel not under command shall exhibit.
  - a) Two Red light vertical line where they can best be seen
  - b) Two Green Light Vertical line where they can best be seen
  - c) Red White Red light vertical line where They can best be seen
  - d) Two White light vertical line where they can best be seen
- 3) What are the equipment used by a vessel in distress during search and rescue operation?
  - a) SART & hand flare
  - b) EPIRB & orange smoke
  - c) SART & Rocket Parachute Signal
  - d) All of these mentions above
- 4) IALA buoyage system, Region "A" is used by; -
  - a) USA, Japan, Korea, Philippines
  - b) Europe, Africa, Australia and Asia except Japan, Korea, Philippines
  - c) Canada, Mexico, Brazil
  - d) India, Argentina, Germany, Egypt
- 5) Duties given on the MUSTER LIST are
  - a) Watch keeping Duties
  - b) Watch keeping Roster
  - c) Emergency Duties for crew in an Emergency.
  - d) Day Work Duties

*[Handwritten signature]*



- 6) What is the single letter signal used for "I require a pilot" in the international code of signal
- H
  - I
  - G
  - None of these.
- 7) Magnetic course means,
- Angle between true north and ship's heading.
  - Angle between magnetic north and ship's heading.
  - Angle between true north and magnetic north.
  - None of these
- 8) A vessel more than 50 m in length at anchor shall exhibit.
- In the fore part an all-round white light and at or near the stern an all-round white light lower level of fore part.
  - One red light on the main mast.
  - One all-round white light on the main mast.
  - In the fore part an all-round white light and at or near the stern an all-round white light higher level of fore part.
- 9) The Shapes are used in navigation as per COLREG are
- Ball, Square, Cone, Diamond.
  - Ball, diamond, Cone, Cylinder.
  - Diamond, Oval, Cone, Cylinder.
  - Ball, Oval, Cone, Cylinder.
- 10) The use of Fenders is
- To prevent wire Rubbing
  - To prevent rope Rubbing
  - To decorate the ship
  - To prevent ship's hull rubbing against the pier or other craft





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#### PRE-SEA TRAINING COURSE FOR DECK RATING - FINAL EXAM, 12 DECEMBER 2019

PART - 2      ANSWER ALL QUESTIONS      TIME DURATION 03 HRS      TOTAL MARKS: 80

1. Box the compass into 32 points and name Cardinal / Inter Cardinal/ Intermediate and by points separately. (10 MARKS)
  
2. The following helm orders are given in consecutive order write down the action you would take. (10 MARKS)

	ORDER	REPLY BY HELMSMAN	ACTION	FINAL REPORT
01	TEST THE GEAR			
02	HARD A PORT			
03	EASE TO TEN			
04	MIDSHIPS			
05	CHECK HER			
06	STEER 210°			
07	STEER 220°			
08	MIDSHIPS			
09	STARBOARD 20°			
10	STEADY			
11	HARD A PORT			
12	FINISH WITH THE WHEEL			

*H. H. H. H.*

3. Draw and show How to mark the 3rd joining shackle? (10 Marks)
4. (i). Name four cardinal marks? (5 Marks)  
(ii). Draw diagrams of cardinal marks using color and top marks? (5 Marks)
5. Name Ten bridge equipment used on board (10 Marks)
6. Write down the "special areas for garbage" under MARPOL Annex V? (10 Marks)
7. List Types of Ropes used on board ships? (10 Marks)
8. Write short notes of the following terms. (10 Marks)  
(a) SOLAS (b) MARPOL (c) STCW (d) MLC

J. L. Hill



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PRE-SEA TRAINING COURSE FOR DECK RATING - 12 DECEMBER 2019

PART - I

TOTAL MARKS: 20

ANSWER ALL THE QUESTION

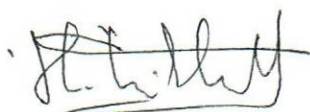
Multiple Choice Questions. Answer all questions

(2 marks for each)

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*[Handwritten signature]*

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  - I
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PRE-SEA TRAINING COURSE FOR DECK RATING - FINAL EXAM, 12 DECEMBER 2019

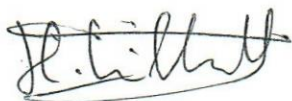
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09	STARBOARD 20°			
10	STEADY			
11	HARD A PORT			
12	FINISH WITH THE WHEEL			

*[Handwritten signature]*

3. Draw and show How to mark the 3rd joining shackle? (10 Marks)
4. (i). Name four cardinal marks? (5 Marks)  
(ii). Draw diagrams of cardinal marks using color and top marks? (5 Marks)
5. Name Ten bridge equipment used on board (10 Marks)
6. Write down the "special areas for garbage" under MARPOL Annex V? (10 Marks)
7. List Types of Ropes used on board ships? (10 Marks)
8. Write short notes of the following terms. (10 Marks)  
(a) SOLAS (b) MARPOL (c) STCW (d) MLC





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**PRE-SEA TRAINING COURSE FOR DECK RATING –FINAL EXAM ,2019 MAY 25<sup>TH</sup>**

TIME: 03HRS

TOTAL MARKS: 100

**PART – 2 ANSWER ALL THE QUESTIONS**

1. How does a ship receive the weather report? (5 Marks)
2. Write down 5 of the special area under MARPOL Annex V. (5 Marks)
3. Write down the procedure of changing over from Manual steering to Auto Pilot. (10 Marks)
4. Write down the 3 Security Levels according to ISPS Code. (5 Marks)
5. Name the 5 type of anchors. (5 Marks)
6. Write down the procedure to be followed prior to the commencement of the sea watch. (10 Marks)
7. Write down 5 of the SOPEP equipment. (5 Marks)
8. Write down the procedure of chipping and painting on a corroded metal surface (10 marks)
9. Draw a sketch of a gun tackle rigged to advantage and name all parts (05 Marks)
10. List out what are the main types of ropes used on board merchant vessels? (10 Marks)

1 <sup>st</sup> Issue date : 2017.05.27	Revision No: 00	Revision date : N/A	Validated by: Co/cord – J_ND
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*Colombo International Nautical and Engineering College*  
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Faculty of Maritime Sciences  
Department of Navigation

EDUCATION & TRAINING COURSE : PRE SEA TRAINING COURSE FOR DECK & ENGINE RATING  
BATCH 05

FINAL EXAMINATION (NAVIGATION)

- Answer all questions
- Total Marks 100

Date: 2018.09.04

Pass mark 50%

Time allocated: 01.5 Hour

- 1) Explain the enclosed space entry procedure. (20 marks)
- 2) Explain the procedure of taking over a navigational watch while at sea. (20 marks)
- 3) With the aid of diagrams, show the positions of the below reported objects with reference to your ship:
  - a) There is a white light right-astern sir;
  - b) There is a vessel starboard abeam sir;
  - c) There is a white light fine on port bow sir;
  - d) There is a vessel 4 points on the starboard bow sir.(05 marks each)
- 4) Describe the duties of a watchkeeper during cargo operations at port. (20 marks)
- 5) Briefly describe the aims and objectives of the following Conventions:
  - a) MARPOL Convention
  - b) International Ballast Water Convention(10 marks each)

*L.M.*

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*Faculty of Maritime Sciences*  
*Department of Navigation*

EDUCATION & TRAINING COURSE : PRE SEA TRAINING COURSE FOR DECK & ENGINE RATING  
BATCH 05

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*FINAL EXAMINATION (ENGINEERING)*

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- *Answer all questions*
- *Total Marks 100*

*Date: 2018.09.04*

*Pass mark 50%*

*Time allocated: 1.5 Hour*

---

1. (a) Make a detailed sketch of a diesel engine lubricating oil service system. (14 marks)  
(b) What are the main purpose of using lubricating oil in a diesel engine. (6 marks)
2. List down 5 components in a diesel engine fuel oil service system and briefly explain the function of each component mentioned above. (20 marks)
3. Draw and explain Ships electrical distribution system. (20 marks)
4. Draw and explain Fresh water generator (Distillate plant). (20 marks)
5. Draw and explain oily water separator (20 marks)



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Faculty of Maritime Sciences  
Department of Navigation  
Education & Training Course : DECK RATING  
Course Code : ND-SEY - Batch 02

-----  
**FINAL SEYPEC EXAMINATION – QUESTION PAPER**  
**NAUTICAL KNOWLEDGE & SEAMANSHIP THEORY**  
-----

- Answer all questions
- Total Marks 180

Date: 07.09.2015

Pass mark 50%

Time allocated: 3 Hours

-----

1. Chief Officer of the vessel assigns you to carry out marking and painting of anchor shackles while the vessel is alongside the berth.

Explain with suitable diagrams how you accomplish the task with all due safety precautions

(30 marks)

2. Your vessel has completed cargo operation and just departed from port for a long sea passage.

Explain step by step how you secure your anchor equipment to ensure safety in any kind of adverse weather condition.

(30 marks)

3. Describe following terms with a suitable diagrams.

- LBP
- Draft
- Freeboard
- Extreme breadth
- Deadweight
- Light displacement
- Lane meters
- Unstable equilibrium

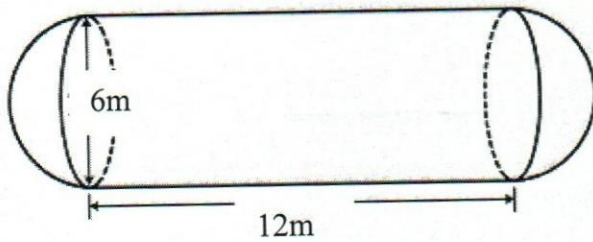
(03 marks each)

4.

- a. Explain with suitable sketches 3 types of basic lashing methods.

(15 Marks)

- b. Find maximum volume and mass of cargo which can be taken to a tank with following dimensions. RD of Oil 0.86.



(10 marks)

5. a) Define following with suitable sketches
- Variation
  - Deviation

(06 marks)

- b) Compass bearing of a light house is found as  $176^\circ$  and deviation of the compass is  $4.5^\circ E$  and variation according to the chart for current year is  $14^\circ W$ . Find the true bearing to be plotted on the chart.

(10 marks)

6. With regards to Dangerous cargoes carried by ships answer following questions.

- a) Sketch followings labels and placards
- Class 2.1
  - Class 2.3
  - Class 4.3
  - Class 9
  - Limited Quantities
  - Marine Pollutant

(15 marks)

- b) What you will do if any package of IMDG cargo is found leaking.

(10 marks)

- 7.
- Explain the procedures' of handing over the bridge watch at sea.
  - Explain the advantages and disadvantages of hand steering and automatic modes.
  - Briefly describes the changing – over procedure from hand steering to auto pilot.
- (30 marks each)

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Faculty of Maritime Sciences

Department of Navigation

EDUCATION & TRAINING COURSE: SEYCHELLES PRE-SEA TRAINING DECK & ENGINE

COURSE CODE: ND-SEY - BATCH 03

**ENGINEERING KNOWLEDGE - I - MCQ QUESTION PAPER**  
**SEYCHELLES PRE-SEA TRAINING - DECK & ENGINE**

- This Paper consists of 40 questions
- Answer all questions. - Underline the Correct Answer
- Total Marks 40

Name - .....

Reg. No - .....

Date: 27.10.2016

Pass mark 50%

Time allocated: 01 Hour

**1. The importance of muster list onboard ship**

- Is to know and familiarize the emergency duty as soon as joint to a ship
- Is to know and familiarize the emergency alarms and other information related to emergency
- Is to face an identified emergency effectively and efficiency
- All of the above

**2. Which one is not an internal combustion engine?**

- Two stroke petrol engine
- Steam turbine
- Four Stroke diesel engine
- Two stroke slow speed diesel engine

**3. Which one is not a part of ships fire main?**

- Main fire pump
- Emergency fire pump
- Deck/ Engine room isolation valve
- Fire axe



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12. **The purpose of quick closing valve is**

- a) Can be closed rapidly and remotely in the event of an emergency
- b) Excess pressure is eased by quick closing valve
- c) Designed to control the flow
- d) Designed to interrupt the flow

13. **Most suitable fire extinguisher for an oil fire**

- a) Dry powder
- b) Water
- c) CO<sub>2</sub>
- d) Foam

14. **Which statement is correct regarding garbage disposal from ships?**

- a) Any category of ship garbage can dispose, 25 nautical miles away from land
- b) Any category of ship garbage can hand over to dispose at ashore facility
- c) Any category of ship garbage can be burned at ship incinerator
- d) Any category of ship garbage can dispose at sea under Marpol, annex V

15. **A/C compressor**

- a) Compresses refrigerant gas
- b) Condenses refrigerant gas
- c) Compresses refrigerant liquid
- d) Condenses refrigerant vapors

16. **Priming of a pump**

- a) Removing air in the discharge side
- b) Removing air in the suction side
- c) Removing air in the suction side and the pipings
- d) Filling water in the discharge side

17. **Oil condition monitoring device is fitted to;**

- a) Sewage treatment plant
- b) Incinerator burner fuel oil system
- c) Oily water separator
- d) Steam burner fuel oil system

18. **Thermodynamically best flow pattern of a heat exchanger is**

- a) Parallel flow      b) Counter flow      c) Mixed Flow      d) Cross flow

19. **Who is responsible for seafarer's health and fitness?**

- a) Captain      b) Chief Officer      c) Himself      d) None of above

20. **Which one is an emergency?**

- a) Flooding      b) Grounding      c) Bad weather      d) All of above

21. **Which one is not part of the 4 stroke cycle?**

- a) Suction      b) Compression      c) Discharge      d) Exhaust

22. **What is the maximum allowable p.p.m for pumping out bilges?**

- a) 20 ppm      b) 15 ppm      c) 50 ppm      d) 16 ppm

23. **Which is not a part of a centrifugal pump?**

- a) Impeller      b) Wear ring      c) Driven wheel      d) Mechanical seal

24. **Which one is not a self priming pump?**

- a) Centrifugal pump      b) Gear pump      c) Screw pump      d) Reciprocating pump

25. **Brass is an alloy of**

- a) Copper & Zink      b) Copper & Aluminum      c) Copper & Lead      d) Copper & Tin

26. **Which one is not a metal joining process?**

- a) Welding      b) Casting      c) Brazing      d) Soldering

27. **Which pump is not suitable to transfer sludge**

- a) Centrifugal pump      b) Mono pump      c) Axial flow pump      d) Rotary vane pump

28. **Alloy is a mixture of**

- a) metals only      b) non metals only  
c) ferrous metals only      d) metal with another metal/non metal

29. **Hacksaw blade cuts on the**

- a) Forward stroke      c) Both Forward & Return stroke  
b) Return Stroke      d) Direction of the force



30. Which statement is correct about maintenance of bilge system?

- a) Mud box strainers should be cleaned
- b) Suction filter of the pump should be cleaned
- c) Bilge wells has to be maintained in oil free condition
- d) All above

31. Which one is incorrect regarding emergency power. Emergency power is supplied to

- a) Steering gears
- b) Emergency fire pump
- c) Main ballast pump
- d) Navigation lights

32. Which substance is an air pollutant?

- a) SO<sub>x</sub>
- b) NO<sub>x</sub>
- c) Volatile organic compounds
- d) All above

33. When there is no water in the boiler

- a) Supply water to the boiler
- b) Close main steam stop valve
- c) Stop burner
- d) Increase air supply

34. Which is not a part of CO<sub>2</sub> total flooding system?

- a) Master valve
- b) Relief valve
- c) Mechanical seal
- d) Operating bottles

35. In oil record book each completed page need to be signed by

- a) Chief engineer
- b) Master
- c) Duty engineer
- d) Company superintendent

36. What is the purpose of boiler scum blow down valve

- a) To take boiler water samples
- b) To remove floating solids from the boiler
- c) To fill the boiler
- d) To release air from the boiler

37. At least how many safety valves should be fitted to a marine boiler?

- a) 1
- b) 2
- c) 4
- d) 3

38. What items cannot be burnt in incinerator

- a) Oily rags
- b) Card board
- c) Paper
- d) Heavy metals

39. **Emergency fire pump should not be situated in**

- a) Bow thruster room    b) Engine room    c) Steering compartment    d) Shaft tunnel

40. **Which is not a part of a purifier?**

- a) Plunger    b) Sliding bowl    c) Bowl    d) Gravity disc

End.

b) Sketch and Describe the meanings of following flags

- I. Bravo
- II. India
- III. Alfa
- IV. Golf
- V. November

(03 marks each)

3.)

a) As per the COLREG describe the following rules in your words

- 1) Rule 5 – Look out
- 2) Rule 6 – Safe Speed

(05 marks each)

b) Draw the lights for a power driven vessel, greater than 50m in length, underway, on following.

- 1) Head-on view
- 2) Port side view
- 3) Stern View

(05 marks each)

4.) With regard to the Anchoring operations, explain the procedures to follow when letting go an Anchor. (10 marks)

5) a) Describe the procedure of executing the Helm Orders. (6 Marks)

b) List down Four signs to identify a dragging Anchor situation (4 Marks)

End.



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Department of Navigation

EDUCATION & TRAINING COURSE : SEYCHELLES PRE-SEA TRAINING DECK & ENGINE

COURSE CODE : ND-SEY - BATCH 03

**FINAL EXAMINATION – QUESTION PAPER**  
**SEYCHELLES PRE-SEA TRAINING -DECK**

- Answer All Questions
- Total Marks 100

Date: 28.10.2016

Pass mark 50%

Time allocated: 03 Hours

1.) Write the short notes on followings (with suitable diagrams if required)

- I. Variation
- II. Deviation
- III. Freeboard
- IV. Check lists (required as per ISM / SMS)
- V. ISPS

(05 marks each)

2.)

a) Sketch and Describe the characteristics including lights signals, Color and top marks of following buoys

- I. North cardinal buoy
- II. West cardinal buoy
- III. Isolated danger buoy
- IV. Safe water mark
- V. Port lateral mark

(03 marks each)

4. a) What are the 4 strokes of I.C. engine? (5 marks)
- b) What are the scavenging methods of 2 stroke engines? (5 marks)
- c) Mention 5 fixed fire extinguishing systems available on board. (5 marks)
- d) What is the purpose of Deck/ Engine isolating valve in the main fire line? (5 marks)
5. a) What are the 3 types of fire detectors used in engine rooms? (5 marks)
- b) What are the main causes of eye injury? (5 marks)
- c) Mention 5 reasons for less production of fresh water in evaporative type distillation plants. (5 marks)
- d) What are the main components of electro-hydraulic steering gear system? (5 marks)
6. a) Name 5 boiler mountings? (5 marks)
- b) What are the main objects of boiler feed water treatment? (5 marks)
- c) What are the 2 main types of boilers? (5 marks)
- d) Why heat treatment is done to steel components? (5 marks)



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Faculty of Maritime Sciences  
Department of Navigation  
EDUCATION & TRAINING COURSE : SEYCHELLES PRE-SEA TRAINING DECK & ENGINE  
COURSE CODE : ND-SEY - BATCH 03

*ENGINEERING KNOWLEDGE - II - Written QUESTION PAPER*  
SEYCHELLES PRE-SEA TRAINING - DECK & ENGINE

- This Paper consists of 06 questions
- Answer all questions.
- Total Marks 60

Date: 27.10.2016

Pass mark 50

Time allocated: 01 Hour & 45 Minutes

1. a) What are the types of heat exchangers available on board? (5 marks)  
b) Name the main components of the basic refrigeration cycle. (5 marks)  
c) Name 5 types of valves available onboard ships. (5 marks)  
d) Name 5 types of pumps commonly used on board ships. (5 marks)
2. a) What is the purpose of a relief valve? (5 marks)  
b) State the 6 annexes with regard to MARPOL 73/78 regulations for the prevention of pollution. (10 marks)  
c) What are emergency escapes? (5 marks)
3. a) What is an enclosed space? (5 marks)  
b) Name 5 enclosed spaces on board ships. (5 marks)  
c) What are the potential hazards available in enclosed spaces? (5 marks)  
d) What is a water tight door? (5 marks)

**Deck Rating**  
**SEYCHELLS-ND-SEY**



CINEC CAMPUS (PVT) LTD  
Faculty of Maritime Sciences  
Department of Navigation

EDUCATION & TRAINING COURSE: PRE-SEA Training Program  
COURSE CODE: ND-125 - BATCH 176/177



## MAIN EXAMINATION - QUESTION PAPER

- Answer all questions.
- Total Marks: 100(part 1 – 76 marks/ Part 2- 24 marks)

Date: 28.03.2022  
03 Hours

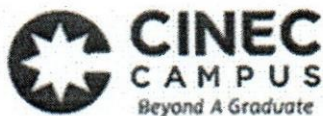
Pass mark 50%

Time allocated:

### PART 1

1. Name All Cardinal Points, Intercardinal Points, Intermediate Points & By Points Separately? ( By aid of a diagram ) (16 MARKS)
2. What are the main type of rope used onboard ship (10 Marks)
3. Draw and show How to mark the 3rd joining shackle? (10 Marks)
4. (a). Draw diagram and colure the Isolated Danger Buoy. (05 Marks)  
(b). Draw diagrams of cardinal marks using color and top marks? (05 Marks)
5. Write down the “special areas for garbage” under MARPOL Annex V? (10 Marks)
6. (a). What are the things consist in a fireman’s outfit? (05 Marks)  
(b). What action to be taken in case of steering failure? (05 Marks)
7. Write down 9 classes of IMDG cargo (10 Marks)





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## MAIN EXAMINATION - QUESTION PAPER

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PRE-SEA TRAINING COURSE FOR DECK RATING - FINAL EXAM 28<sup>TH</sup> MAR 2022

TIME: 03Hrs

Total Marks : 100(part 1 – 76 marks/ Part 2- 24 marks)

PART - 2

ANSWER ALL THE QUESTIONS

(Total Marks 24) (02 Marks each question)

### MULTIPLE QUESTION PAPER

#### 1. Reciprocal Course Means :-

- The course the vessel is steering
- The course opposite to the vessel is steering.
- Direction to a light house
- The course laid on the chart

#### 2. What are the equipment used for search and rescue operations when vessels in distress

- EPIRB , SART & AUTO PILOT ,
- EPIRB , & AUTO PILOT
- SART , & AUTO PILOT
- EPIRB , & SART

**3. Cardinal Marks are used To :-**

- a. To Mark a Channel
- b. To Mark Extended Dangers
- c. To Mark Anchorages
- d. To Mark a Entrance

**4. Underway Means :-**

- a. A Vessel at Anchor
- b. A Vessel aground
- c. A Vessel not at Anchor / Not Made Fast to Ashore / Not Aground
- d. A Vessel in distress

**5. Which is the Flag to be hoisted when Pilot is required**

- a. Alfa
- b. Golf
- c. Hotel
- d. Bravo

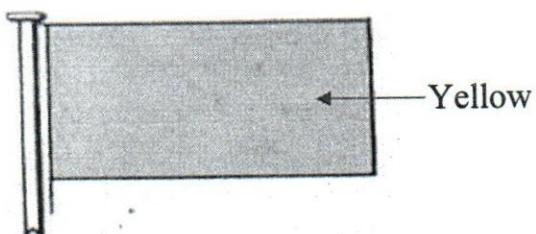
**6. Duties given in the muster list are :-**

- a. Watch keeping duties
- b. Watch Keeping Roster
- c. Emergency duties for crew in an emergency
- d. Day work duties

**7. A Continuous Sounding of the ship Whistle is**

- a. A Distress Signal
- b. A Fog Signal
- c. To indicate a Vessel not Steering properly
- d. A Signal Before Anchoring

8. The letter and meaning of below single letter flag is,



- a) Letter "O" – "Man Overboard"
- b) Letter "Q" – "Man overboard"
- c) Letter "H" – "I have pilot on board"
- d) Letter "Q" – "My vessel is "healthy" and I require free pratique."

9. The below label is indicate that,

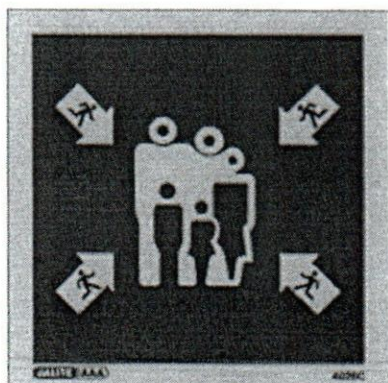


- a) This is an IMDG cargo class 3 Flammable liquids
- b) This is an IMDG cargo class 8 Gasses
- c) This is an IMDG cargo class 8 Corrosive substances.
- d) This is Marine Pollutant.

10. Emergency Escape Breathing Devices (EEBD) shall not be used for

- a) Fighting Fires
- b) Entering Oxygen deficient voids or tanks
- c) Worn by fire fighters.
- d) All above reasons.

11. The below picture of common safety signs indicates that,



- a) The Children have to stay with parents at Bus stand as waiting for the Bus.
- b) This a Family planning notice.
- c) This is the Muster Point on Board ship.
- d) The direction of Muster station.

12. The picture below illustrate that this is a



- a. Power driven vessel less than 50m seen from ahead.
- b. Vessel not under command making way through the water.
- c. Power driven vessel 50m or more in length seen from ahead.
- d. Fishing vessel seen from ahead.



000034

SEY

Colombo International Nautical and Engineering College  
CINEC CAMPUS  
Faculty of Marine Engineering  
Department of Marine Engineering  
EDUCATION & TRAINING COURSE:- PRE SEA TRAINING COURSE - SEYCHELLES  
COURSE CODE: ND- SEY

*FINAL EXAMINATION QUESTION PAPER*  
*Basic Technical Knowledge 1*

- This question paper consists of 33 questions.
- Answer All Questions

Date: 2015.09.08 Pass mark 50%

Time allocated: 01 Hour

- Q1 Colour code of portable dry powder extinguisher (04 marks)
- Blue
  - Red
  - French blue
  - Cream
- Q2 Which one is not a function by engine Department? (03 Marks)
- Electrical & electronics repair
  - Engineering maintenance
  - Cargo operation & controlling
  - Auxiliary engine repair
- Q3 Which is possible in an enclosed space? (03 Marks)
- Lack of Oxygen
  - Presence of toxic gases
  - Presence of flammable gases
  - All of above
- Q4 A/C compressor (03 Marks)
- Compresses refrigerant gas
  - Condenses refrigerant gas
  - Compresses refrigerant liquid
  - Condenses refrigerant vapors

- Q5 Which one of following is not a marking tool? (03 Marks)
- a) Scriber
  - b) Tri square
  - c) Vernier caliper
  - d) Center punch
- Q6 Priming is (03 Marks)
- a) Removing air in the discharge side
  - b) Removing air in the suction side
  - c) Removing air in the suction side and the piping
  - d) Filling water in the discharge side
- Q7 what is the least count of a measuring instrument? (03 Marks)
- a) The smallest value that can be measured by measuring instrument.
  - b) The largest value that can be measured by measuring instrument.
  - c) The smallest value of vernier caliper
  - d) The largest value of vernier caliper
- Q8 E.E.B.D use for (03 Marks)
- a) Extinguished the fire
  - b) Entering to the enclosed space
  - c) Escaping areas of hazardous
  - d) All of above
- Q9 which one is dissimilar (03 Marks)
- a) Vernier caliper
  - b) Steel ruler
  - c) Protector
  - d) Center punch
- Q10 Oil condition monitoring device is fitted to; (03 Marks)
- a) Sewage treatment plant
  - b) Incinerator burner fuel oil system
  - c) Oily water separator
  - d) Steam boiler burner fuel oil system
- Q11 The importance of the Muster list onboard ship (03 Marks)
- a) Is to know and familiarize the emergency duty as soon as join to a ship
  - b) Is to know and familiarize emergency alarms and other information related to emergency
  - c) Is to face and identified emergency effectively and efficiently
  - d) All of above

- Q12 Principle of the centrifuge is (03 Marks)
- a) Centrifugal force will throw any items having density greater than the fuel periphery of the bowl.
  - b) Gravitational force throw impurities periphery of the bowl
  - c) Hydrodynamic force throw impurities periphery of the bowl
  - d) Non of above
- Q13 what is the most suitable instrument to measure cylinder bore of an engine? (03 Marks)
- a) Venire caliper
  - b) Cylinder bore gauge
  - c) Filler Gauge
  - d) Protector
- Q14 Reason for tappet clearance is (03 Marks)
- a) For proper injection
  - b) For proper atomization
  - c) For thermal expansion of valves
  - d) For proper Lubrication
- Q15 Plate type cooler plate relief patterns are used to (03 Marks)
- a) Increase surface area
  - b) Promote turbulence
  - c) Increase strength
  - d) All of above
- Q16 Reason for sterilizing the fresh water which produce by low pressure fresh water generator (03 Marks)
- a) To kill any bacteria present the water
  - b) To give a taste to the water
  - c) To kill any virus present in water
  - d) Non of above
- Q17 Which one is an emergency? (03 Marks)
- a) Flooding
  - b) Grounding
  - c) Bad weather
  - d) All of above
- Q18 Heat treatment of steels (03 Marks)
- a) Change the micro structure
  - b) Change physical properties by heating and allowing to cool under control condition
  - c) Relieve the internal stresses of a steel
  - d) All of above

Q19 Emergency Bilge injection valve (03 Marks)

- a) Is connected to the main S.W. pump
- b) Is connected to the bilge pp
- c) Is connected to the fire pump
- d) Is connected to the fuel transfer pp

Q20 During cylinder head Valve "overlap" period (03 Marks)

- a) Fuel injection takes place
- b) Both inlet and Exhaust valves are kept open
- c) Both inlet and Exhaust valves are kept closed
- d) Combustion takes place inside the cylinder

Q21 lubricating oils are used to engine for (03 Marks)

- a) Reduce friction
- b) Transfer heat
- c) Prevent corrosion
- d) All of above

Q22 Breathing apparatus is a (03 Marks)

- a) Respiratory equipment
- b) Non respiratory equipment
- c) Both are correct
- d) Non of above

Q23 which one of following is not a watch keeping duty (03 Marks)

- a) Maintenance work
- b) Cleaning and Painting
- c) Keeping machineries under observation
- d) Bunkering operation

Q24 Boiler P<sup>H</sup> value (03 Marks)

- a) 5-6
- b) 7-8
- c) 9.5-11
- d) 13-14

Q25 Fuel injector (03 Marks)

- a) Supplies fuel to the piston
- b) Sprays fuel into the cylinder
- c) Supplies L.O. to the cylinder
- d) Supplies L. O. to the gudgeon pin



Q26 When there is no water in the boiler (03 Marks)

- a) Supply water to the boiler
- b) Close main stop valve
- c) Stop burner
- d) Increase air supply

Q27 Boiler safety valve is there to (03 Marks)

- a) Release the temperature
- b) Release the water
- c) Release the steam pressure
- d) Release the vacuum

Q28 Which of the following is a part of gear pump? (03 Marks)

- a) Relief valve
- b) Impeller
- c) Volute casing
- d) Gauge glass

Q29 Boiler gauge glass is used? (03 Marks)

- a) To find the water level in the boiler
- b) To find the steam pressure in the boiler
- c) To find the oil level in the boiler
- d) To find the oxygen in the boiler

Q30 What is smothering? (03 Marks)

- a) Remove oxygen
- b) Remove fuel
- c) Remove heat
- d) Supply fuel

Q31 Which one is not a component of refrigeration system? (03 Marks)

- a) Expansion valves
- b) Condenser
- c) Refrigeration compressor
- d) Expansion tank

Q32 What is the first action you take if you come across a fire in engine room? (03 Marks)

- a) Try to extinguish with a suitable fire extinguisher
- b) Muster at muster station
- c) Raise fire alarm.
- d) Take a head count and evacuate engine room.

Q33 Which one is not a function of lubricating oil? (03 Marks)

- a) It reduces friction and there by reduces wear
- b) It carries away some of the heat generated inside the cylinder and other areas
- c) It increases the acidity in the cylinder
- d) It brings hard scale to suspension form

Lebrans



Colombo International Nautical and Engineering College

CINEC CAMPUS

Faculty of Marine Engineering

Department of Marine Engineering

EDUCATION & TRAINING COURSE:- PRE SEA TRAINING COURSE - SEYCHELLES

COURSE CODE: *ND-SEY*

000012 ✓

FINAL EXAMINATION QUESTION PAPER  
*Basic Technical Knowledge 2*

- This question paper consists of five questions.
- Answer All Questions

Date: 2015.09.08 Pass mark 50%

Time allocated: 03 Hrs

(1)

- Name 5 types of pumps commonly used on board ship? (5marks)
- Sketch and name the main components of the basic refrigeration cycle (8marks)
- What are the reasons for less production of fresh water in evaporative type distillation plant? (5marks)
- What are the types of heat exchangers available onboard ships? (2marks)

(2)

- What are the main components of electro-hydraulic steering gear system? (5marks)
- Why heat treatment is done to metals? Name 2 heat treatments given to metals? (5marks)
- Explain why it is important to keep engine room bilges in clean condition at all times? (5marks)
- with regard to MARPOL 73/78 regulations for the prevention of pollution, state the MARPOL annexes? (5marks)

(3)

- a) what are the good house keeping practice to be followed on board? (5marks)
- b) What is the correct action to be taken the event of fire on board? (5marks)
- c) What is an enclosed space? And what are the potential hazards available in such space?  
(5marks)
- d) What are the main causes of eye injury?  
(5marks)

(4)

- a. what is stroke? (2marks)
- b. what is overlap?(2marks)
- c. one of the 2 stroke engine r.p.mis 120 calculate the r.p.m of camshaft? (2marks)
- d. briefly explain 4stroke cycle with relevant sketches (timing diagram also) (8marks)
- e. write short note on crosshead, crankshaft, cylinder liner (6marks)

(5)

- a. what is scump blowdown? (1mark)
- b. explain boiler gauge glass blow down procedure? (3marks)
- c. what are the types of watches? (4marks)
- d. state tasks assigned to stand by watch?(4 marks)
- e. state rules should follow when writing engine room log book? (4marks)
- f. state reasons for blackout (2marks)
- g. why chemicals add to the boiler water (2marks)

**Able Seafarer Deck**  
**Certification of proficiency**  
**(COP)**



CINEC CAMPUS

Faculty of Maritime Sciences

Department of Navigation

EDUCATION & TRAINING COURSE : ABLE SEAFARER DECK

COURSE CODE : ND-0214 BATCH 027

FINAL MCQ ASSESSMENT

### AB Certificate of Proficiency

Answer all questions. Underline or select the most suitable answer.

Total Marks : 60%

Name : .....

Reg.No : .....

Date: 10.02.2022

Pass mark 50%

Time allocated: 01 Hour

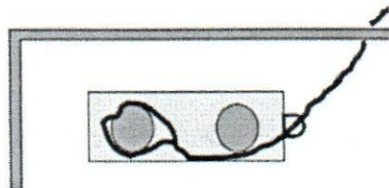
- 1) What is the purpose of forward and aft spring ropes?
  - a) To stop forward and aft movement of a vessel
  - b) To stop a vessel moving away from a jetty
  - c) To stop a vessel's movement in the stern direction
  - d) To stop a vessel's movement in the forward direction only
  
- 2) What is the meaning of 'snap back zones' on board a vessel?
  - a) Special areas allocated for stowing dangerous goods
  - b) Special areas marked in mooring stations, where there is a possibility of injury when mooring ropes are parted.
  - c) Special areas marked onboard for helicopter operations.
  - d) None of above
  
- 3) What should be done when called for aft stations when arriving at a port?
  - a) Open bow thruster flaps, switch on forward lights and inform officer in-charge.
  - b) Report to the officer in-charge, switch on winch power, keep standby rat guards & heaving lines, switch on lights (at night), keep ready the mooring ropes for slacking.
  - c) Switch on winch power, keep standby rat guards & heaving lines, switch on lights (at night), keep ready the mooring ropes for slacking.
  - d) All of above

- 4) What is the meaning of the below signal when used in mooring operations?

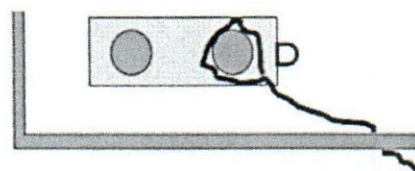


- a) Rope is made fast.
  - b) Heave away the rope.
  - c) Let go the rope.
  - d) Slack off the rope.
- 5) Select the correct method of fastening a tug line to ship's bollard from the following diagrams;

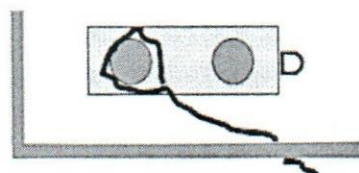
a)



b)



c)



d) None of above

- 6) What is the knot that should be used on a parted (broken) mooring rope during berthing?
- Clove hitch.
  - Bowline knot.
  - Reef knot.
  - Figure of eight.
- 7) What is the meaning of 'walk back' when used during anchoring operations?
- Lower the anchor under power.
  - Start heaving the anchor.
  - Stop heaving the anchor.
  - Slack the cable.
- 8) What is the purpose of the anchor wash?
- It is used to heave up the anchor during strong winds.
  - It is used to clean the anchor and the cable while heaving up.
  - It is used to monitor the direction of the anchor cable.
  - It is used to ensure the anchor is well secured.
- 9) What is the meaning of 'lee side' of a ship?
- It is the starboard side.
  - It is the port side.
  - It is the side facing a wind.
  - It is the side covered by the wind.
- 10) What are the equipment to be kept stand by at a pilot ladder when it is rigged?
- Multi gas detector, helmet & glove.
  - Torch, hand held VHF set & heaving line.
  - Life buoy with self-igniting light and hand held VHF set.
  - Heaving line and life buoy with self-igniting light.
- 11) Select the correct statement with regard to handing over the wheel while carrying out manual steering.
- Need to get permission from the duty officer before handing over.
  - Never hand over while carrying out a wheel order (while turning or steadying).
  - Inform the gyro heading and magnetic heading to reliever and to duty officer before handing over.
  - All the above statements are correct.
- 12) What will you do when ordered 'ease to 10°' during steering?
- I will increase the rudder angle to 10°.
  - I will steer 010°.
  - I will reduce the rudder angle to 10°.
  - I will steady the ship.

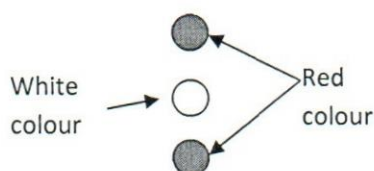


13) How do you report to the duty officer if you notice an object as the below diagram while on the navigational watch?



- There is an object on starboard abeam.
- There is an object 4 points on the starboard beam.
- There is an object on the starboard side.
- There is an object right ahead.

14) Identify the vessel, if she is displaying the following light signals during night time.



- A vessel engaged in fishing.
- A vessel at anchor.
- A vessel not under command.
- A vessel restricted in her ability to maneuver.

15) Identify the vessel, if she is displaying the following signal during day time.



- A vessel not under command.
- A vessel restricted in her ability to maneuver.
- A deep draught vessel.
- A vessel engaged in fishing.

16) What vessels are required to have two mast head lights during navigation at night?

- Vessels of 50 m or more in length.
- Vessels of less than 50 m in length.
- Vessels of 100 m or more in length.
- All sizes of the vessels.

- 17) What is the meaning of 'stand-on vessel' with regard to the International Collision Regulations?
- It is the vessel need to take avoiding action.
  - It is a vessel at anchor.
  - It is a vessel at berth.
  - It is the vessel required to keep her course & speed un-changed.
- 18) What is the meaning of flag 'O' (Oscar)?
- I require a pilot.
  - Man overboard.
  - I have a pilot onboard.
  - I am taking in or carrying or discharging dangerous goods.
- 19) What the purpose of an echo sounder?
- Use to monitor the Wind Speed.
  - Use to measure the height between the keel and the seabed.
  - Use to measure the current.
  - Use to monitor the true heading.
- 20) What is the Convention/Code which regulates marine pollution by ships?
- SOLAS Convention.
  - STCW Convention.
  - MARPOL Convention.
  - ISM Code.
- 21) What is the Convention/Code which regulates the carriage of dangerous goods in package form on ships?
- ISPS Code.
  - IMDG Code.
  - STCW Convention.
  - ISM Code.
- 22) What is the purpose of Non-Return valves?
- To allow the flow of fluid in one direction.
  - To allow the flow of fluid in any direction.
  - To stop the flow of fluid in any direction.
  - None of above.
- 23) What is the meaning of 'chafing' with regard to handling of ropes?
- Securing a rope.
  - Letting go a rope.
  - Rubbing against another Surface.
  - Greasing a rope.

24) Before entering into an enclosed space, the Oxygen content has to be;

- a) 08 %
- b) 21 %
- c) 05 %
- d) 100%

25) Select the correct statement with regard to crane and derrick handling.

- a) Never exceed the Safe Working Load (SWL).
- b) Watch the signals given by the signalman.
- c) In form the duty officer if any alarms are activated.
- d) All the above statements are correct.

26) Where will you find the SWL marked on a derrick?

- a) It is marked on the cargo hook.
- b) It is marked at the operating position of the derrick.
- c) It is marked on the boom.
- d) It is marked at the goose neck.

27) What is the meaning of the below signal when used during crane/derrick handling?



- a) Heave-up the runner wire.
- b) Hoist the jib.
- c) Swing the jib.
- d) Switch off the pump.

28) Identify the type of the below block.



- a) It is a double sheave block.
- b) It is a snatch block.
- c) It is treble sheave block.
- d) It is wooden block.

- 29) What are the equipments, accessories & documents required to be readily available at a gangway when in use?
- An oil can, grease gun, chipping hammer & a wire brush.
  - Work and rest hour records, life buoy and security log book.
  - Life ring with line & self-igniting light, security log book, shore leave board, tide table and fire plan.
  - None of above.
- 30) What are the routing actions to be taken by a gangway watchman when the sun is setting?
- Inform all personal onboard.
  - Switch on all the deck & cargo hold lights, lower flags and ensure the gangway is properly lit.
  - Make a record on the security log book and inform the duty officer.
  - Take soundings of all the tanks and report to the duty officer.
- 31) What are the routing duties of an AB during a cargo watch?
- Checking of mooring lines, ensure no pollution & ensure deck areas are lighted during dark hours.
  - Keep the cargo working area clear of obstructions, keep the deck area cleaned & comply with the duty officer's instructions.
  - Ensure the cargo gears are not over loaded, ensure the cargo is loaded & lashed according to the plans and contact duty officer when in doubt.
  - All of above
- 32) What does the following safety sign indicates (the shaded area is in green colour)?



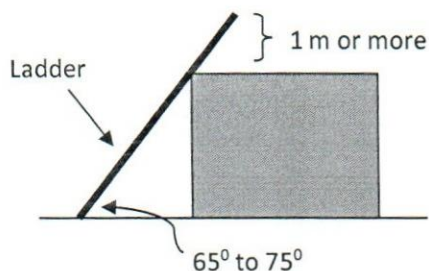
- Indicates the families get to gather point.
  - Indicates the saloon.
  - Indicates the main deck.
  - Indicates the muster point.
- 33) What does the following safety sign indicates (the shaded area is in blue colour)?



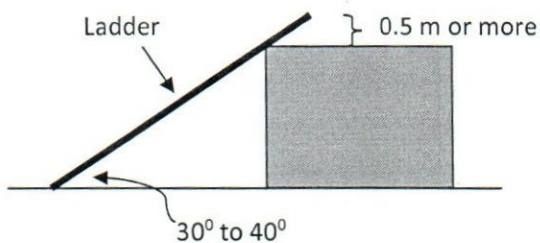
- Indicates to wear ear plugs.
- Indicates to wear helmet.
- Indicates to wear life jacket.
- Indicates to wear safety harness.

34) Select the correct method of rigging a steel ladder from the below diagrams.

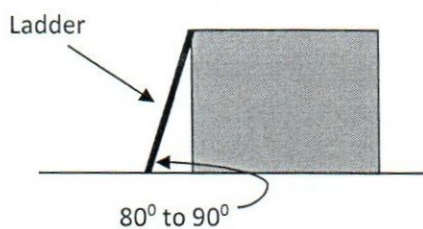
a)



b)



c)



d) None of above

35) What is the purpose of a strum box?

- It is used to store spare parts.
- It is used to collect leaking oil in derricks.
- It is to store steel wire ropes.
- It is used to avoid blocking of bilge lines in a bilge well.

36) 'PMS' stands for;

- Planned Manufacturer's System
- Planned Maintenance System
- Planned Master System.
- Planner's Maintenance System.

37) What are the types of garbage that cannot be discharged to sea?

- Plastics.
- Synthetic ropes.
- Plastic garbage bags.
- All of above.

- 38) Prevention of pollution by oil is regulated by MARPOL;
- Annex – I.
  - Annex – II.
  - Annex – III.
  - Annex – IV.
- 39) Select the correct statement with regard to SOPEP.
- The purpose of SOPEP is to prevent or minimize pollution by chemicals carried in bulk.
  - The purpose of SOPEP is to prevent or minimize pollution by garbage.
  - The purpose of SOPEP is to prevent or minimize pollution by oil.
  - All the above statements are correct.
- 40) What is the use of oil booms on board ships?
- It is used to contain oil in to a small area once the oil is spilled over board.
  - It is used to absorb the spilled oil.
  - It is used to remove spilled oil.
  - It is used to stow the collected spilled oil.
- 41) What are the safety precautions required to be taken while bunkering?
- Ensure the red light or the 'Bravo' flag is hoisted and deck scuppers are plugged.
  - Take frequent deck round to be maintained to ensure no pollution and ensure the SOPEP equipments are readily available.
  - Ensure the opposite side bunker manifold is properly closed and dip trays are plugged.
  - All the above safety precautions to be taken.
- 42) What is a 'Material Safety Data Sheet'?
- It a document that contains associated dangers involved with some types of cargoes and ship stores.
  - It is a document that contains medical condition of the seafarers.
  - It is a document that contains safety information of the vessel.
  - It is a document that contains work and rest hours.
- 43) If the fwd draught is 8.5 m and aft draught is 9.0 m, what is the trim of the vessel?
- 0.5 m by head.
  - 0.5 m by stern.
  - Trim is zero.
  - None of the Above.
- 44) What is the purpose of trimming the cargo on bulk carriers?
- To keep the vessels upright.
  - To avoid torsional stresses.
  - To make sure the weight is evenly distributed.
  - All of above

45) What could happen when carrying coal with high Sulphur content?

- a) Corrosion of the cargo hold when the cargo becomes wet
- b) Can cause flooding of the hold.
- c) Cargo could be damaged.
- d) Nothing will happen.

46) Identify the marine pollutant label in accordance with the IMDG Code from the following;

a)



b)



This is an orange colour label

c)



d)



47) What is the meaning of Hypothermia?

- a) Loss of environmental temperature.
- b) Loss of body temperature.
- c) Increasing body temperature.
- d) No change of body temperature.

- 48) What is fatigue?
- a) Reduction in physical and/or mental capability due to lack of rest.
  - b) Loss of body temperature.
  - c) Change of weather.
  - d) Name of a ship.
- 49) Select the wrong statement with regard to discharging operations on oil tankers.
- a) Check the cargo lines to make sure no leaks from them.
  - b) Discharging shall commence at a higher rate.
  - c) Sounding or the ullage to be checked at frequent Intervals.
  - d) Appropriate Valves to be opened as instructed by the chief officer.
- 50) What is the meaning of COW with regard to oil tanker operations?
- a) Clean Oil Washing.
  - b) Cargo Onboard Weight.
  - c) Crude Oil Waste.
  - d) Crude Oil Washing.
- 51) Select the wrong statement with regard to container cargo operations.
- a) Ensure the containers are stowed as per plan.
  - b) Ensure the containers are properly secured.
  - c) Ensure the reefer containers are plugged after loading.
  - d) Ignore, if the IMDG cargoes are loaded in wrong positions.
- 52) What should you do if you happen to work in high temperatures?
- a) Use warm cloths, take salt tablets & inform DPA
  - b) Take salt tablets, drink lot of water and try to reduce body fluid loss.
  - c) Eat well, sleep well & use alcohol.
  - d) None of the Above
- 53) Good hygiene can be maintained by;
- a) personal cleanliness
  - b) regular exercises
  - c) sensible diet
  - d) all of above
- 54) What does a safe water mark indicate?
- a) Dangerous waters.
  - b) Navigable waters.
  - c) Restricted waters.
  - d) Ports and harbours.



- 55) Which of the following should be used to separate strands of a wire rope when making a splice?
- a) Marlinespike
  - b) Chipping hammer
  - c) Any tapered metal device
  - d) Fid
- 56) What is the purpose of gas tight doors on board car carriers?
- a) To ensure no noxious gasses are transferred from one compartment to another
  - b) To provide easy access.
  - c) To maintain the water tightness of the vessel.
  - d) None of the Above.
- 57) Select the wrong statement with regard to cargo operations on car carriers.
- a) Should wear jacket with retro-reflective tapes.
  - b) Ensure the vehicle doors are locked after loading.
  - c) Put wedges at the tires on the vehicles which are on slopes.
  - d) Open appropriate ventilation in cargo working areas.
- 58) When are you required to carry out a risk assessment?
- a) Prior to working aloft.
  - b) Prior entering into an enclosed space.
  - c) Prior Welding on Deck.
  - d) All of the above
- 59) What is the most important content of a cargo securing manual?
- a) Ship's Data
  - b) Dangerous Cargo Data
  - c) Cargo securing methods
  - d) Weights and volumes of the cargoes.
- 60) Select the action which is not to be taken in preparing a vessel for heavy weather.
- a) Partly full the ballast tanks.
  - b) Secure all movable items.
  - c) Check the tightness of the cargo lashing.
  - d) Ensure the cargo gears are properly lashed.

END.



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Colombo International Nautical and Engineering College

CINEC CAMPUS

Faculty of Maritime Sciences

Department of Navigation

EDUCATION & TRAINING COURSE : ABLE SEAFARER DECK

COURSE CODE : ND-0214 BATCH 006

FINAL MCQ ASSESSMENT

**AB Certificate of Proficiency**

- Answer all questions. Underline the Correct Answer
- Total Marks 60
- Name - .....
- CDC No - .....

Date: 29.04.2016

Pass mark 50%

Time allocated: 02 Hours

1. What is General Alarm?
  - a) One short blast followed by Long Blast
  - b) Five short blasts followed by a Long Blast
  - c) Four Long Blasts followed by One Short Blasts
  - d) Seven Short Blasts followed by One Long Blast
  
2. The disk with a Horizontal line drawn on the ship's side is called
  - a) Water Mark
  - b) There is no mark as such
  - c) Plimsoll mark
  - d) Deck Mark
  
3. How the Manila ropes are measured?
  - a) Diameter
  - b) Length
  - c) Circumference
  - d) Width
  
4. Freeboard is measured from
  - a) The water line to the Deck line
  - b) The Water line to the Accommodation
  - c) The Water line to the Keel
  - d) The water line to the Mast

5. When storing Natural Fiber Ropes never
  - a) Dry the rope
  - b) Lubricate the rope
  - c) Wash with Fresh water
  - d) Do nothing
  
6. GPS is referred to
  - a) Geodetic Pass Ships
  - b) Geographical Past Stations
  - c) Global Positioning System
  - d) Global Past Situation
  
7. When making a rope fast to a railing which of the following would you use?
  - a) Reef knot
  - b) Clove hitch
  - c) Carrick bend
  - d) Bowline Knot
  
8. Strongest knot used to join the ends of two different sizes of ropes
  - a) Reef knot
  - b) Carrick Bend
  - c) Clove Hitch
  - d) Timber Hitch
  
9. Non Return valves are used to
  - a) Flow through in one direction
  - b) Flow through in different directions
  - c) Stop flow in any Direction
  - d) Non return valves are not used onboard
  
10. Snap Back Zone in a mooring Station is to be
  - a) Used to stand while mooring operation
  - b) Avoided while Mooring Operation
  - c) There is no area as such
  - d) Used to coil Mooring Ropes
  
11. A vessel Under way means
  - a) Not Made fast to the Shore
  - b) Not at Anchor
  - c) Aground
  - d) All of the above

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12. By operating a GPS
    - a) Speed made good cannot be monitored
    - b) Course made good cannot be monitored
    - c) CPA to another vessel cannot be monitored
    - d) ETA to waypoints cannot be monitored
  
  13. The minimum requirements to be certified as a Watch keeping Rating is Given in
    - a) SOLAS
    - b) STCW Code
    - c) IMDG Code
    - d) MARPOL
  
  14. Chafing means
    - a) Rubbing against another Surface
    - b) Sealed and Fit
    - c) Trimming and Securing
    - d) None of the above
  
  15. How many Security Levels are there in ISPS Code?
    - a) 1
    - b) 2
    - c) 3
    - d) 4
  
  16. Vessel Not under Command Day Signal is
    - a) Black Cylinder
    - b) One Black Ball
    - c) Two Black Balls in a vertical Line
    - d) Ball Diamond Ball in a vertical line
  
  17. STCW regulations are applicable to
    - a) Masters of ships only
    - b) All seafarers, administrations, Shipping companies and training institutes
    - c) Ship owners only
    - d) Shipping companies only
  
  18. When air is in non-flammable range, Oxygen O<sub>2</sub> % is
    - a) 20%
    - b) 17%
    - c) 8%
    - d) 100%

19. In IMDG cargos dangerous gases are classified under
- a) class 3
  - b) class 4
  - c) class 2
  - d) class 5
20. Where is the tween deck located?
- a) Between the Hatch top and the Tank top
  - b) Between two Cargo Holds
  - c) Between two cabins
  - d) Between Fore peak tank and the after peak tank
21. Hatch covers are
- a) Weather tight
  - b) Water tight
  - c) Spring tight
  - d) None of the above
22. What is Signal Flag "B?"
- e) I have a diver Down, Keep Clear of me
  - f) I am carrying Dangerous Goods
  - g) I have a Pilot onboard
  - h) I require a Pilot
23. Warning signs of Heart attack does not include
- a) Chest Pain
  - b) Vomiting
  - c) Dizziness
  - d) Long Breath
24. When Handing over a Bridge Watch, information should be given to the reliever is
- a) Instruction's given by the OOW
  - b) Visibility Condition
  - c) Magnetic Course
  - d) All of the above
25. Fatigue May cause due to
- a) Management Factors
  - b) Ship Specific Factors
  - c) Environmental Factors
  - d) All of the above

26. Which country does include in IALA Region B
- a) Sri Lanka
  - b) India
  - c) Philippines
  - d) Pakistan
27. The purpose of a freeing port is to
- a) Quickly remove water from the deck
  - b) Discharge seamen
  - c) Provide a place to pump bilges
  - d) Put the crew on shore leave
28. When Discharging on Tankers which term is incorrect
- a) Check the cargo lines to make sure no leaks on the line
  - b) Discharging shall commence at a higher rate
  - c) Sounding or the Ullage to be checked at frequent Intervals
  - d) Appropriate Valves to opened as instructed by officer
29. For what purpose an Oxygen Analyzer is used for
- a) To increase Oxygen Level
  - b) To decrease Oxygen Level
  - c) To detect the Oxygen Level
  - d) To neutralize the atmosphere
30. Wrong statement about Container stowage precautions
- a) Check containers are stowed as per plan
  - b) Check containers are properly secured. Twist stacker in hold / twist locks plus lashing rods on deck
  - c) Check refrigerated cargo are power supplied
  - d) Ignore the IMDG which are not in correct places
31. What could result from carrying coal with high Sulphur content?
- a) Corrosion of steelwork in the cargo holds if the cargo becomes wet
  - b) Can cause flooding
  - c) Can keep the area well ventilated
  - d) None of the Above
32. What is evaporation
- a) Gas change in to Liquid
  - b) Liquid change into Gas
  - c) Liquid stays like Liquid
  - d) Gas stays like Gas

33. When dealing with leaking IMDG cargo, a measure not to be taken is
- Immediately inform an Officer
  - Refer the IMDG code
  - Try touching the leaking material to identify
  - Inform the others around of the situation
34. Hypothermia means
- Loss of Engine Heat
  - Loss of Body Heat
  - Increasing Body Heat
  - Maintaining Body Heat
35. During High temperatures
- Take Salt Tablets
  - Use warm clothes
  - Has to have sun baths
  - None of the Above
36. Safety Alarm which can be identified in the cargo gear is
- Boom Low Position Alarm
  - Cargo Block Hook High Position Alarm
  - Maximum Swinging Angle Alarm
  - All of the above
37. Strum box is there to
- Cover up Garbage
  - Store ropes in the fore castle
  - Prevent cargo residue in to the bilge line
  - Prevent Garbage entering Cabins
38. Good Hygiene can be maintained by
- Personal Cleanliness
  - Regular Exercises
  - Sensible Diet
  - All of the above
39. Safe Water Mark indicates the
- Danger Waters
  - Navigable Waters
  - Restricted Waters
  - None of the Above

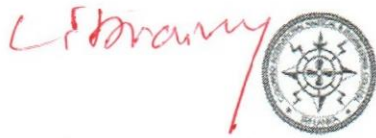
- 0 52
40. When in Distress message sent by the Radio Telephony is
- PAN PAN
  - MAY DAY
  - HELP
  - SECURITE
41. With Regard to the Berthing Operations Make Fast Hand Signal is
- A circular movement of the hand above the head
  - Both hands raised above the Shoulders
  - Crossed arms in front of the body
  - A sharp Upward Movement of the Arm with the hand cupped towards
42. Anchor Buoy is used for
- Indicating Anchorages
  - As a Foul Anchor marking for later recovery
  - To show Areas restricted for Anchoring
  - To show the Last dropped Anchor Positions
43. Joining Shackle is
- Used to connect two Wire ropes
  - Used to connect two blocks
  - Used to connect two mooring ropes
44. Which of the following should be used to separate strands of wire rope when making a splice?
- Marlinespike
  - Carpenter stopper
  - Any tapered metal device
  - Fid
45. Trim can be calculated by taking the
- Difference of forward and aft draughts
  - Difference of Port and Starboard Drafts
  - Difference of Length Overall and Length Between Perpendiculars
  - None of the above
46. Procedure which is referred as COW
- Crude oil wasting
  - Cargo onboard weight
  - Cargo oil wastage
  - Crude oil washing



47. Purpose of gas tight doors on car-carriers
- Security
  - Fire safety
  - Provide easy access
  - None of the Above
48. Not a safety precaution to be taken when handling vehicles on car-carriers
- Should wear jacket with retro-reflecting papers
  - Ensure vehicle doors are locked
  - Put wedges at the tires on the vehicles which are on slopes
  - Open appropriate ventilation in cargo working areas
49. Echo Sounder is used to
- Monitor the Wind Speed
  - Measure the height between the keel and the Seabed
  - Measure the Current
  - Measure the True Heading
50. Vessel Trimmed by Ahead means
- When the Forward Draft is higher than the Aft Draft
  - When the Aft Draft is higher than the Forward Draft
  - When Both the Drafts Are Equal
  - None of the Above
51. "Warping" Means
- Moving a vessel by means of Ropes fastened to a pier
  - Moving a Block from Forward to Aft
  - Moving a Container in an athwart ship Direction
  - Moving a Container on the Peer from Forward to Aft
52. Wire ropes are not suitable to use if the wire rope
- Is Crushed
  - Is Chafed
  - If more than 10% of strands are broken in a length of eight Diameters
  - All of the above
53. BNWAS System is there to ensure
- Ship's Security Level is intact
  - Bridge is manned and the OOW is awake
  - Pirates are not onboard
  - None of the above

54. A symptom of depression is not
- Slow movement
  - Gaining weight
  - Ability to study
  - Sleepiness
55. Risk assessment to be done
- Prior working aloft
  - Prior painting Main Deck
  - Prior Welding on Deck
  - All of the above
56. In enclosed Spaces
- Having a high amount of Oxygen Percentage
  - Having a less amount of Oxygen Percentage
  - Having a healthy atmosphere
  - None of the Above
57. Cargo Securing Manual does not contain
- Ship's Data
  - Dangerous Cargo Data
  - Specification of Fixed Cargo Securing Devices
  - Cargo Securing calculation
58. What is SOPEP?
- Shipboard Oil Pollution Emergency Plan
  - Ship operated pollution emergency prevention
  - Ship oil Pollution Emergency Purpose
  - None of the Above
59. In ship stability procedure "Heel" is
- List of ship's stores
  - Transverse inclination of a vessel due to external forces
  - Measurements of a Vernier caliper
  - List of cargo scheduled to unload
60. With Reference to MARPOL Annex V Discharge of Plastic Garbage is
- More than 3 miles to the nearest land
  - More than 12 miles to the nearest land
  - Discharging Prohibited
  - Discharging Permitted while en-route

End.



Colombo International Nautical and Engineering College

CINEC CAMPUS

Faculty of Maritime Sciences

Department of Navigation

EDUCATION & TRAINING COURSE : ABLE SEAFARER DECK

COURSE CODE : ND- 0214 BATCH 005



FINAL MCQ ASSESSMENT

**AB Certificate of Proficiency**

- Answer all questions. Underline the Correct Answer
- Total Marks 60

Date: 29.02.2016

Pass mark 50%

Time allocated: 1,1/2 Hours

Candidate Name : .....

CDC No : .....

**1. If mooring line parts while moored which knot is used to make a Temporary eye**

- a) Bowline knot
- b) Reef knot
- c) Carrick Bend
- d) Never use a Temporary eye

**2. What is General Alarm?**

- a) One short blast followed by Long Blast
- b) Five short blasts followed by a Long Blast
- c) Four Long Blasts followed by One Short Blasts
- d) Seven Short Blasts followed by One Long Blast

**3. How the Manila ropes are measured?**

- a) Circumference
- b) Length
- c) Diameter
- d) Width



**4. Anchor Wash valve means**

- a) A valve fixed for washing the deck
- b) Valve fixed to the purpose of washing the Anchor
- c) A valve fixed to fight fire
- d) None of the above

**5. In Cargo hold the Deck between Hatch top and Tank top is called a**

- a) Tween Deck
- b) Cargo Deck
- c) Collision Bulk Head
- d) Upper Deck

**6. Strongest knot used to join the ends of two different sizes of ropes is**

- a) Reef knot
- b) Timber Hitch
- c) Clove Hitch
- d) Carrick Bend

**7. What is a spring line?**

- a) A line which is made to act like a Coil Spring
- b) Mooring line led from ship to pier at 45 degrees angle to the Fore and Aft Center line
- c) Mooring Line using to tow two ships
- d) A Mooring line led from ship to pier at 90 degrees to the keel

**8. By operating a Global Positioning System**

- a) Speed made good can be monitored
- b) CPA to another vessel cannot be monitored
- c) Course made good can be monitored
- d) ETA to waypoints

**9. The minimum Rest Hours needed in any 24 hour period as per ILO and STCW requirements**

- a) 8Hours
- b) 11 Hours
- c) 10 Hours except in an Emergency
- d) 12 Hours in an Emergency

**10. Meaning of "Chafing"**

- a) Rubbing against another Surface
- b) Sealed and Fit
- c) Trimming and Securing
- d) None of the above

**11. What is the Area from the Keel to the bottom of the Sea is called?**

- a) Freeboard
- b) Under Keel Clearance
- c) Draft
- d) Tank

**12. Dunnage are used to**

- a) Prevent cargo ventilation
- b) Separate and Spread the weight of the cargo
- c) Ship's steel touch the cargo
- d) All of the above

**13. Non Return valves are used to**

- a) Flow through in one direction
- b) Flow through in different directions
- c) Stop flow in any Direction
- d) Non return valves are not used onboard



**14. Transverse inclination of a vessel due to internal forces**

- a) Heel
- b) List
- c) Trim
- d) None of the above

**15. In IMDG cargos corrosive substances are classified under**

- a) Class 3
- b) Class 4
- c) Class 2
- d) Class 8

**16. Weather tight arrangement come in**

- a) Hatch covers
- b) Openings below deck
- c) Collision Bulk Head
- d) All of the above

**17. Snap Back Zone in a mooring Station is to be**

- a) Used to stand while mooring operation
- b) Avoided while Mooring Operation
- c) There is no area as such
- d) Used to coil Mooring Ropes

**18. Fathom is a length equal to**

- a) 5 feet
- b) 6 Feet
- c) 7 Feet
- d) 8 Feet



**19. To collect the water entered in to the Cargo hold**

- a) Ballast Tank
- b) Sewage Tank
- c) Bilge well
- d) None of the above

**20. Consequence x Frequency is**

- a) Risk
- b) Disaster
- c) List
- d) Probability

**21. The minimum requirements to be competent enough to certify as Watch keeping Rating is Given in**

- a) SOLAS
- b) STCW Code
- c) IMDG Code
- d) MARPOL

**22. Instrument used to take Bearings of Celestial Objectis**

- a) Barometer
- b) Azimuth Circle
- c) Barograph
- d) Instrument which is never be used onboard

**23. Upper Light Red, Lower Light White in a vertical Line**

- a) Trawling vessel Night Signal
- b) Fishing vessel Night Signal
- c) NUC vessel Night Signal
- d) RAM vessel Night Signal

**24. The opening used for quickly removing water from the deck**

- a) Freeing port
- b) Port Hole
- c) Water Tight Door
- d) None of the Above

**25. Risk associated with carrying coal with high Sulphur content?**

- a) Flooding
- b) Corrosion of steelwork in the cargo holds if the cargo becomes wet
- c) Can keep the area well ventilated
- d) None of the above

**26. Stress factors can be avoided by**

- a) Exercising Regularly
- b) Eating regular and well balanced Meals
- c) Meditation
- d) All of the above

**27. Used in Loading and unloading of mobile unit of car carriers**

- a) Ramp
- b) Bilge
- c) Gangway
- d) None of the above

**28. What is evaporation?**

- a) Gas change in to Liquid
- b) Liquid change into Gas
- c) Liquid stays like Liquid
- d) Gas stays like Gas



**29. Information cannot be obtained from Register of Cargo Handling Gear and Deck appliances is**

- a) Periodical examinations Test and Inspections to be carried out
- b) Certificate of tests and thorough examinations of Cargo Gear
- c) Certificate of tests and thorough examinations of loose Gear
- d) Crane Operator's Certificate

**30. Fluid order according to Highest Density**

- a) Normal water> Sea water> Coconut Oil
- b) Sea water>Normal water> Coconut Oil
- c) Coconut Oil> Sea Water> Normal Water
- d) Coconut Oil> Normal Water> Sea Water

**31. Loss of Body Heat**

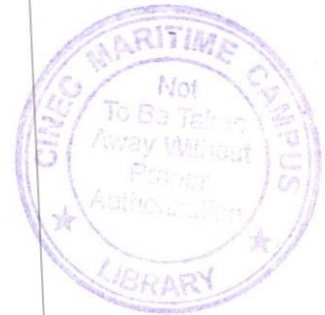
- a) Hypothermia
- b) Heat Stroke
- c) Stress
- d) None of the above

**32. On joining Familiarization training is**

- a) Not required if the seaman is experienced
- b) Not required if the seaman is young
- c) All crew should be familiarized on joining
- d) Only to the Master of the ship should be familiarized

**33. Safety Alarm which can be identified in the cargo gear is**

- a) Boom Low position Alarm
- b) Cargo Block Hook High Position Alarm
- c) Maximum Swinging Angle Alarm
- d) All of the above



**34. Halyards are used for**

- a) Hoisting Buckets
- b) Hoisting Flags
- c) Passing Mooring Ropes
- d) Secure Barrels

**35. The valve provided on the Inert Gas system to ensure there is no Back Pressure**

- a) Deck Isolating Valve
- b) Hydraulic Valve
- c) Stop Valve
- d) Globe Valve

**36. Measure of Good Hygiene**

- a) Cleanliness
- b) Regular Exercises
- c) Sensible Diet
- d) All of the above

**37. VRM in a Radar Equipment is referred to**

- a) Variable Request Marker
- b) Variable Range Marker
- c) Viscosity Range Marker
- d) Viscosity Request Marker

**38. ISPS Code Security Level 1 means**

- a) Minimum appropriate protective Security measures to be maintained
- b) Additional appropriate protective Measures to be taken
- c) Maximum appropriate protective Security measures to be maintained
- d) No need of any security measures

**39. MAY DAY is**

- a) Security message sent by the Radio Telephony
- b) Distress message sent by the Radio Telephony
- c) Urgency message sent by the Radio Telephony
- d) None of the above

**40. Anchor aweigh means**

- a) The anchor is being heaved up and the Anchor is clear from the seabed
- b) The anchor is being heaved up and sighted
- c) The Anchor is being entangled with obstruction
- d) Anchor is ready to let go

**41. What is Signal Flag "Z?"**

- a) I have a diver Down, Keep Clear of me
- b) I am carrying Dangerous Goods
- c) I require a Tug
- d) I require a Pilot

**42. Used to separate strands of wire rope when making a splice**

- a) Marlinespike
- b) Fid
- c) Chisel
- d) Grinder

**43. Which country does include in IALA Region B**

- a) Sri Lanka
- b) India
- c) Philippines
- d) Pakistan



**44. With reference to SAR operations Search Patterns can be found on**

- a) Safety of Life at Sea
- b) International Aeronautical and Maritime Search and Rescue Manual Volume III
- c) International Maritime Dangerous Goods Code
- d) International Ships and Port Facility Security Code

**45. When Cargo is loaded from warm region and heading to cold region**

- a) Cargo leaks occur
- b) Ship sweat occur
- c) Cargo debris occur
- d) Cargosweat occur

**46. A removable Ladder used for Entering or leaving a ship**

- a) Accommodation Ladder
- b) Gangway
- c) A Portable ladder
- d) None of the above

**47. Moving a vessel by means of Ropes fastened to a pier**

- a) Warping
- b) Heaving
- c) Slacking
- d) Deviating

**48. Safety precautions and emergency procedures with reference to IMDG code are to be followed according to**

- a) Volume 1
- b) Supplement
- c) Volume 2
- d) Volume 3

**49. During an Overtaking Situation with reference to COLREG, which term is correct?**

- a) Vessel being overtaken has to keep clear of the overtaking vessel
- b) Over taking vessel should keep out of the way of the vessel being overtaken
- c) Vessel which has the other on Port side shall keep out of the way
- d) Vessel which has the other on Starboard Side shall keep out of the way

**50. 27.5 meters**

- a) Length of a Fathom
- b) Length of a Shackle
- c) Length of a Nautical Mile
- d) None of the above

**51. When Attaching a rope to a Hook the correct knot to be used is**

- a) Clove hitch
- b) Black wall Hitch
- c) Double Carrick Bend
- d) Carrick Bend

**52. When there is Free Surface Effect**

- a) The Rolling Period is high
- b) Vessel will roll into Larger Angles
- c) Vessel May even Capsize
- d) All of the Above

**53. Wrong statement about Container stowage precautions**

- a) Check containers are stowed as per plan
- b) Check containers are properly secured. Twist stacker in hold / twist locks plus lashing rods on deck
- c) Check refrigerated cargo are power supplied
- d) Ignore the IMDG which are not in correct places



**54. Trim**

- a) Transverse Inclination of a vessel
- b) Tank capacity of the vessel
- c) Longitudinal inclination of a vessel
- d) None of the above

**55. Temperature at which it is possible to ignite the Vapor above the liquid**

- a) Lower Flammable Limit
- b) Higher Flammable Limit
- c) Flash point
- d) None of the Above

**56. Transverse inclination of a vessel due to external forces**

- a) List
- b) Heel
- c) Trim
- d) None of the above

**57. Echo Sounder is used to**

- a) Monitor the Wind Speed
- b) Measure the height between the keel and the Seabed
- c) Measure the Current
- d) Measure the True Heading

**58. Bitter end of an Anchor will not be released**

- a) When the cable is running uncontrollably even after applying breaks
- b) To avoid collision with another vessel while at anchor
- c) To adjust the Stability of the vessel
- d) To do repairs at Dry Dock

**59. STCW regulations are applicable to**

- a) All seafarers, administrations, Shipping companies and training institutes
- b) Shipping Companies
- c) Training Institutes
- d) All of the above

**60. Safe Water Mark indicates the**

- a) Danger Waters
- b) Navigable Waters
- c) Restricted Waters
- d) None of the Above

End.

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17

Colombo International Nautical and Engineering College

CINEC CAMPUS

Faculty of Maritime Sciences

Department of Navigation

EDUCATION & TRAINING COURSE : ABLE SEAFARER DECK

COURSE CODE : ND- 0214 BATCH 004

FINAL MCQ ASSESSMENT

**AB Certificate of Proficiency**

- Answer all questions. Underline the Correct Answer
- Total Marks 60

Date: 28.12.2015

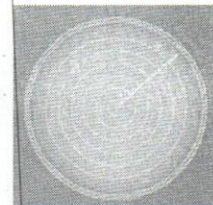
Pass mark 50%

Time allocated: 02 Hours

1. Deck openings for draining water on Deck is called
  - a) Scupper
  - b) Port Hole
  - c) Water tight Door
  - d) Draining Valve
2. If mooring line parts while moored which knot is used to make a Temporary eye
  - a) Bowline knot
  - b) Reef knot
  - c) Carrick Bend
  - d) Never use a Temporary eye
3. In Cargo hold the Deck between Hatch top and Tank top is called a
  - a) Tween Deck
  - b) Cargo Deck
  - c) Collision Bulk Head
  - d) Upper Deck
4. The water line to the Deck line
  - a) Freeboard
  - b) Draft
  - c) Keel
  - d) Mast



5. Strongest knot used to join the ends of two different sizes of ropes
  - a) Reef knot
  - b) Carrick Bend
  - c) Clove Hitch
  - d) Timber Hitch
  
6. Snap Back Zone in a mooring Station is to be
  - a) Used to stand while mooring operation
  - b) Avoided while Mooring Operation
  - c) There is no area as such
  - d) Used to coil Mooring Ropes
  
7. Aft means
  - a) Towards the Stern
  - b) Towards the Forward
  - c) Towards the Port Side
  - d) Towards the Starboard Side
  
8. Fathom is a length equal to
  - a) 5 feet
  - b) 6 Feet
  - c) 7 Feet
  - d) 8 Feet
  
9. EBL in a Radar equipment is referred to
  - a) Electronic Bow Line
  - b) Electric Basic Line
  - c) Electronic Bearing Line
  - d) None of the Above
  
10. If you see new target is detected by the RADAR you should
  - a) Call Master
  - b) Inform Duty Officer
  - c) Take action
  - d) Do nothing
  
11. As per ILO and STCW requirements, the minimum Rest Hours needed in any 24 hour period is
  - a) 9 Hours
  - b) 12 Hours
  - c) 10 Hours except in an Emergency
  - d) 12 Hours except in an Emergency




12. Hogging is
- Bending of the hull so that the fore and aft drafts are lower than the middle
  - Bending of the hull so that the fore and aft drafts are higher than the middle
  - Bending of the hull so that the fore and aft drafts are same level as the middle
  - Bending of the hull so that the Port and Starboard ends of the keel are even
13. Vessel Not under Command Day Signal is
- Black Cylinder
  - One Black Ball
  - Two Black Balls in a vertical Line
  - Ball Diamond Ball in a vertical line
14. Roughly conical device welded on to the tank top or deck is?
- Base plate
  - Half Plate
  - Deck Plate
  - Small Plate
15. Healing tanks are
- Used for taking in Fresh Water
  - Used for keeping the vessel upright during cargo operations
  - Used for taking in Fuel
  - None of the above
16. Watertight means
- Water can go inside
  - Water cannot go inside and cannot come outside
  - Water can go inside but cannot come outside
  - Water cannot go inside but can come outside
17. What is Signal Flag "B?"
- I have a diver Down, Keep Clear of me
  - I am carrying Dangerous Goods
  - I have a Pilot onboard
  - I require a Pilot
18. Combination Ladder is used
- If the Pilot Ladder is broken
  - If the required height is more than 9m
  - If the required height is more than 12m
  - None of the above

19. Information cannot be obtained from Register of Cargo Handling Gear and Deck appliances is
- Periodical examinations Test and Inspections to be carried out
  - Certificate of tests and thorough examinations of Cargo Gear
  - Certificate of tests and thorough examinations of loose Gear
  - Crane Operator's Certificate
20. Warning signs of Heart attack does not include
- Chest Pain
  - Vomiting
  - Dizziness
  - Long Breath
21. Halyards are used for
- Hoisting Buckets
  - Hoisting Flags
  - Passing Mooring Ropes
  - Secure Barrels
22. ECDIS has inputs by
- GPS
  - ARPA
  - Echo Sounder
  - All of the above
23. ISPS Code Security Level 1 means
- Minimum appropriate protective Security measures to be maintained
  - Additional appropriate protective Measures to be taken
  - Maximum appropriate protective Security measures to be maintained
  - No need of any security measures
24. Fishing vessel Night Signal is
- Upper Light White, Lower Light Red in a vertical Line
  - Upper Light Red, Lower Light White in a vertical Line
  - Upper Light Green Lower Light White in a vertical Line
  - Upper light white Lower Light Green in a vertical Line
25. With reference to SAR operations Search Patterns can be found on
- Safety of Life at Sea
  - International Aeronautical and Maritime Search and Rescue Manual Volume III
  - International Maritime Dangerous Goods Code
  - International Ships and Port Facility Security Code

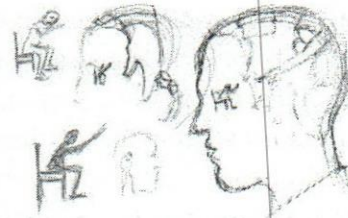


26. The purpose of a freeing port is to
- Quickly remove water from the deck
  - Discharge seamen
  - Provide a place to pump bilges
  - Put the crew on shore leave
27. If the lashing is damaged
- Structural Damages may occur
  - Other cargo may damage
  - Pollution May occur
  - All of the above
28. How do we control the tank pressure when loading a gas carrier?
- With vapor return to shore
  - With Cargo compressor
  - Loading Rate
  - All of the Above
29. What could result from carrying coal with high Sulphur content?
- Corrosion of steelwork in the cargo holds if the cargo becomes wet
  - Can cause flooding
  - Can keep the area well ventilated
  - None of the above
30. When Loading on Tankers which term is incorrect
- Check the cargo lines to make sure no leaks on the line
  - Loading Shall commence at a higher rate
  - Sounding or the Ullage to be checked at frequent Intervals
  - Appropriate Valves should be opened as instructed by officer
31. What is Flag Etiquette?
- Tradition in the use of Flag
  - Flag Mast
  - Flag Pole
  - None of the above
32. How the Manila lines Measured?
- Diameter
  - Length
  - Circumference
  - Width

33. IMDG stands for
- Intermediate Maritime Discharging Goods
  - International Means of Discharging Goods
  - International Maritime Dangerous Goods
  - International Means of Dangerous Goods
34. Hatch covers are secured by
- Base locks
  - Twist Locks
  - Cleats
  - Chain Blocks
35. Good Hygiene can be maintained by
- Personal Cleanliness
  - Regular Exercises
  - Sensible Diet
  - All of the above
- 
36. Sagging is
- Bending of the hull so that the fore and aft drafts are lower than the middle
  - Bending of the hull so that the fore and aft drafts are higher than the middle
  - Bending of the hull so that the fore and aft drafts are same level with the middle
  - Bending of the hull so that the Port and Starboard ends of the keel are even
37. With reference to COLREG Restricted visibility, when two ships in Risk of Collision, which term is incorrect?
- Shall avoid an alteration of Course to Port for a vessel forward of the Beam other than for a vessel being overtaken
  - Shall avoid an alteration of Course to Starboard for a vessel forward of the Beam other than for a vessel being overtaken
  - Shall avoid an alteration of course towards a vessel abeam
  - Shall avoid an alteration of course towards a vessel abaft the beam
38. Quarter is the
- Foremost Direction of the ship
  - After most Direction of the ship
  - Port and Starboard Direction of the ship
  - None of the above
39. With Regard to the Berthing operations Make Fast Hand Signal is
- A circular movement of the hand above the head
  - Both hands raised above the Shoulders
  - Crossed arms in front of the body
  - A sharp Upward Movement of the Arm with the hand cupped towards

40. Joining Shackle is
- Used to connect two Wire ropes
  - Used to connect two Shackle length Cables
  - Used to connect two blocks
  - Used to connect two mooring ropes
41. Which of the following should be used to separate strands of wire rope when making a splice?
- Marlinespike
  - Carpenter stopper
  - Any tapered metal device
  - Fid
42. Method by which longitudinal inclination of the vessel can be calculated
- Difference of fwd and aft draughts
  - Difference of Port and Starboard Drafts
  - Difference of Length Overall and Length Between Perpendiculars
  - None of the above
43. Special adaption found in the bulk carriers to improve the strength of the vessel
- Corrugated transverse bulk heads
  - Longitudinal
  - Cell guides
  - Upper most Continuous Deck
44. Not a safety precaution to be taken when handling vehicles on car-carriers
- Should wear jacket with retro-reflecting papers
  - Ensure vehicle doors are locked
  - Put wedges at the tires on the vehicles which are on slopes
  - Open appropriate ventilation in cargo working areas
45. Importance of cargo ventilation
- Air tight the wedges
  - Create cargo sweat
  - Remove poisonous gases
  - Generate moisture in cargos
46. Sign of Dragging Anchor is not
- Sudden vibration and Jerks
  - Cable becomes long stay and short Stay Continuously
  - Change of Bearings
  - Cable become up and Down

47. With Regard to the Berthing operations Let Go Hand Signal is
- A circular movement of the hand above the head
  - Both hands raised above the Shoulders
  - Crossed arms in front of the body
  - A sharp Upward Movement of the Arm with the hand cupped towards
48. Vessel Engaged in Trawling Day Signal is
- Two Cones Apexes Together
  - Two Cones Apexes Down
  - Two Cones Apexes Up
  - Two cones Apexes different sides
49. With reference to COLREG Responsibilities between vessels, a Power Driven Vessel shall keep out of the way of
- A vessel not under command
  - A vessel Restricted in her ability to maneuver
  - A Sailing vessel
  - All of the above
50. STCW regulations are applicable to
- Masters of ships only
  - All seafarers, administrations, Shipping companies and training institutes
  - Ship owners only
  - Shipping companies only
51. A symptom of depression is not
- Slow movement
  - Gaining weight
  - Ability to study
  - Sleepiness
52. IMDG code consists of
- 1 volume
  - 1 volume and 1 supplement
  - 2 volumes and 1 supplement
  - 3 volumes and 1 supplement
53. Watertight Integrity means
- A ship's ability to resist flooding
  - A ship's ability go in Heavy weather
  - A ship's ability to resist bending
  - None of the above



54. Country Flags to be flown
- Sun rise to Sun Set
  - Some countries Flags are to be hoisted every 24 Hours
  - Above all the flags
  - All of the above
55. If you notice an oil slick around your ship
- Do nothing and ignore
  - Observe what could happened
  - Pour some chemicals on to it
  - Immediately inform duty officer
56. During COW procedure, tank must not be
- Having positive pressure
  - Having oxygen content 8% or higher in volume
  - Having IG pump in operation
  - Under MARPOL requirements
57. For a vessel to sail with zero or minimum free surface effect
- Ballast Tanks must be completely full
  - Ballast Tanks must be completely empty
  - Ballast Tanks Must be half empty
- A, B, C
  - B
  - A and B
  - Neither A or B or C
58. What is SOPEP?
- Shipboard Oil Pollution Emergency Plan
  - Ship operated pollution emergency prevention
  - ship oil Pollution Emergency Purpose
  - None of the Above
59. Stowage of containers on deck of ships which are not specially designed and fitted for the purpose of carrying containers should not
- bestowed in the fore-and-aft direction
  - provided with Adequate support
  - stowed and secured so as to permit safe access for personnel
  - overstress the deck or hatches on which they are stowed
60. In IMDG cargos Corrosives are classified under
- class 3
  - class 4
  - class 8
  - class 5





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**Colombo International Nautical and Engineering College  
CINEC Maritime Campus**

*Winner of 'World Class' – Global Performance Excellence Award – 2012 – Education Organization*

*Winner of International Asia Pacific Quality Award -2010 – Best in Class – Education Organization*

*Winner of Sri Lanka National Quality Award – 1999 – 2004 – 2009*

**Faculty of Maritime Science**

**Able Seafarer Deck  
Certificate of Proficiency Final Exam (MCQ)**

*Answer all questions. Underline the Correct Answer*

*Total Marks: 60*

*Date: 02.09.2015*

*Pass mark: 50 %*

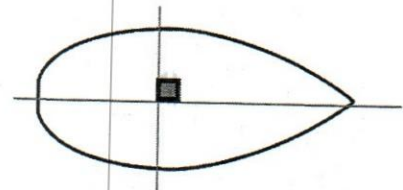
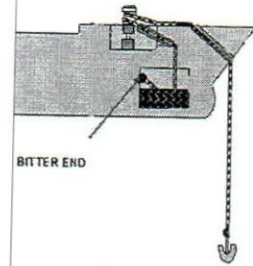
*Time allocated: 02 Hours*

1. GPS is used to
  - a) Monitor the Wind Speed
  - b) Measure the height between the keel and the Seabed
  - c) Find the Position of the vessel
  - d) Measure the True Heading
  
2. Accommodation Ladder is
  - a) A ladder fixed to the Ship's Side for entering or leaving a ship
  - b) A removable Ladder used for Entering or leaving a ship
  - c) A Portable ladder used to climb the containers
  - d) None of the above



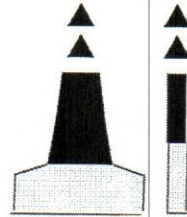
3. Vessel Trimmed by head means
  - a) When the Forward Draft is higher than the Aft Draft
  - b) When the Aft Draft is higher than the Forward Draft
  - c) When Both the Drafts are Equal
  - d) None of the Above

4. Hatch covers are
  - a) Weather tight
  - b) Water tight
  - c) Spring tight
  - d) None of the above
  
5. PMS Stands for
  - a) Permanent Military Support
  - b) Poor Management of Seamen
  - c) Planned Maintenance System
  - d) Pre Methodical Standards
  
6. Bitter end of an Anchor will **not be** released
  - a) When the cable is running uncontrollably after applying breaks
  - b) To avoid collision with another vessel while at anchor
  - c) To adjust the Stability of the vessel
  - d) To do repairs at Dry Dock
  
7. Abeam Means
  - a) Towards the Stern
  - b) Towards the Forward
  - c) Right Angles to the Centerline
  - d) Towards the Starboard Side
  
8. Stress can be minimized by
  - a) Meditation
  - b) Eat regular and well balanced Meals
  - c) Exercising Regularly
  - d) All of the above
  
9. EBL in a Radar Equipment is referred to
  - a) Extended Bearing Line
  - b) Electronic Bearing Line
  - c) Extra Bearing Line
  - d) Electronic Basic Line
  
10. What does LPG stands for
  - a) Liquefied Petroleum Gas
  - b) Liquid Petrol Gasoline
  - c) Liquefied Processed Gas
  - d) Less Petroleum Gas



11. IMDG code consists of
- One Volume
  - Two Volumes
  - Two Volumes and One Supplement
  - One Volume and One Supplement

12. Identify the Cardinal buoy in the picture
- North Cardinal buoy
  - South Cardinal Buoy
  - East Cardinal Buoy
  - West Cardinal Buoy



13. ECDIS means
- Electric Chart Dual Indicating System
  - Electronic Chart Display and Indicating System
  - Electronic Chart Display and Information System
  - Electronic Chart Department of International Services

14. BNWAS System is there to ensure
- Ship's Security Level is intact
  - Bridge is manned and the OOW is awake
  - Pirates are not onboard
  - None of the above

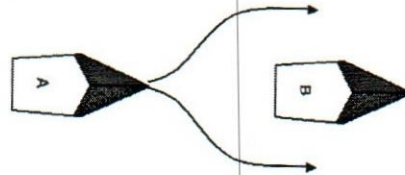
15. A preferred channel Buoy is used when
- There is only one channel
  - Two channels Meet, one will be designated as preferred channel
  - There is no Channel
  - There is no buoy as such



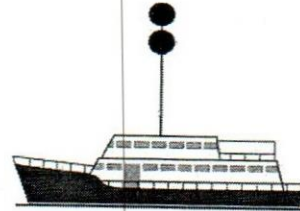
16. In Head On Situation
- "A" should alter course to Starboard
  - "B" should alter course to Port
  - Both vessels should alter course to Starboard
  - None of the Above



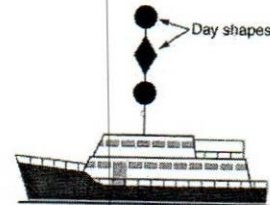
17. With reference to COLREG, during an Overtaking Situation which term is correct?
- Over taking vessel should keep out of the way of the vessel being overtaken
  - Vessel being overtaken has to keep clear of the overtaking vessel
  - Vessels should do nothing
  - There is no rule as such



18. The Day Signal of the picture in the ship is
- Restricted in Her Ability to Maneuver
  - Not Under Command
  - Constrained by her Draft
  - Vessel Engaged in Fishing

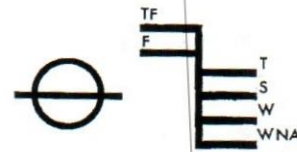


19. The Day Signal of the picture in the ship is
- Restricted in Her Ability to Maneuvering
  - Not Under Command
  - Constrained by her Draft
  - Vessel Engaged in Fishing



20. STCW regulations are applicable to
- Masters of ships
  - All seafarers, administrations, Shipping companies and training institutes
  - Ship owners
  - Shipping companies only
21. What is Signal Flag "A?"
- I have a diver Down, Keep Clear of me
  - I am carrying Dangerous Goods
  - I am altering to Port
  - I require a Pilot
22. What is Signal Flag "O?"
- All persons should report on board
  - Man overboard
  - I am altering to Port
  - I require a Pilot

- 100
23. What is Signal Flag "N?"
- All persons should report on board
  - Negative
  - I am altering to Starboard
  - I require a Pilot
24. What is General Alarm?
- One short blast followed by Long Blast
  - Five short blasts followed by a Long Blast
  - Four Long Blasts followed by One Short Blasts
  - Seven Short Blasts followed by One Long Blast
25. Length of a Shackle is
- 25.5 meters
  - 27.5 meters
  - 26.5 meters
  - 18 meters
26. The disk with a Horizontal line drawn on the ship's side is called
- There is no mark as such
  - Plimsoll mark
  - Deck Mark
  - Water Mark
27. What is Flag Etiquette?
- Tradition in the use of Flag
  - Flag Mast
  - Flag Pole
  - None of the above
28. Safety Alarm which can be identified in the cargo gear is
- Boom Low position Alarm
  - Cargo Block Hook High Position Alarm
  - Maximum Swinging Angle Alarm
  - All of the above
29. Maritime Safety Data Sheet contains
- First Aid Measures
  - Personal Protection Methods
  - Disposal Considerations
  - All of the Above



30. In enclosed Spaces
- a) Having a high amount of Oxygen Percentage
  - b) Having a less amount of Oxygen Percentage
  - c) Having a healthy atmosphere
  - d) None of the Above
31. Strum box is there to
- a) Cover up Garbage
  - b) Store ropes in the fore castle
  - c) Prevent obstruct bilge line from cargo residues
  - d) Prevent Garbage entering Cabins
32. Watertight Integrity means
- a) A ship's ability to resist flooding
  - b) A ship's ability go in Heavy weather
  - c) A ship's ability to resist bending
  - d) None of the above

33. Wire Ropes are consist of

- a) Wires
- b) Strands
- c) Core
- d) All of the above



34. What is evaporation

- a) Gas change in to Liquid
- b) Liquid change into Gas
- c) Liquid stays like Liquid
- d) Gas stays like Gas



35. For what purpose an Oxygen Analyzer is used for

- a) To increase Oxygen Level
- b) To decrease Oxygen Level
- c) To detect the Oxygen Level
- d) To neutralize the atmosphere

36. As per ILO and STCW requirements, the minimum Rest Hours needed in any 7 days period is

- a) 70 Hours
- b) 73 Hours
- c) 77 Hours
- d) 81 Hours

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37. MARPOL Regulation applicable to

- a) Ship owners only
- b) Masters & officers only
- c) Crew only
- d) Applicable to all above

38. Due to MARPOL Regulation

- a) Sea pollution from ships have been minimized
- b) Air pollution from ships have been minimized
- c) All seas are clean and green
- d) All above

39. MARPOL regulations have been introduced

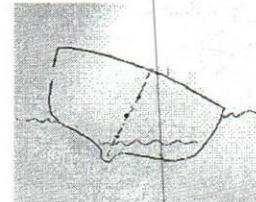
- a) For the benefit of IMO
- b) For the benefit of shipping community
- c) For the benefit of other countries
- d) For the benefit of mankind

40. If you notice an oil slick around your ship

- a) Do nothing and ignore
- b) Observe what could happened
- c) Pour some chemicals on to it
- d) Immediately inform to the duty officer

41. When there is Free Surface Effect

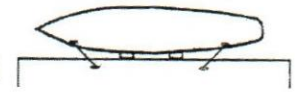
- a) The Rolling Period is High
- b) Vessel will roll into Larger Angles
- c) Vessel May even Capsize
- d) All of the Above



42. What types of Stoppers used on Wire Ropes?

- a) Chain
- b) Manila Ropes
- c) Wire Ropes
- d) Natural Fiber Ropes

43. What is a spring line?
- a) A line which is made to act like a Coil Spring
  - b) Mooring line led from ship to pier at 45 degrees angle to the Fore and Aft Center line
  - c) Mooring Line using to tow two ships
  - d) A Mooring line led from ship to pier at 90 degrees to the keel



44. Freeboard is measured from
- a) The water line to the Deck line
  - b) The Water line to the Accommodation
  - c) The Water line to the Keel
  - d) The water line to the Mast

45. Permit to work is valid only for
- a) 12 Hours
  - b) 24 Hours
  - c) 36 Hours
  - d) 48 Hours

46. Fathom is a length equal to
- a) 5 feet
  - b) 6 Feet
  - c) 7 Feet
  - d) 8 Feet

47. Transverse inclination of a vessel due to Ballasting is called as
- a) List
  - b) Heel
  - c) Trim
  - d) None of the Above

48. Hypothermia means
- a) Loss of Engine Heat
  - b) Loss of Body Heat
  - c) Increasing Body Heat
  - d) Maintaining Engine Heat

49. In IMDG cargos explosives are categorized under
- a) class 1
  - b) class 3
  - c) class 4
  - d) class 7



50. During High temperatures
- Take Salt Tablets
  - Use warm clothes
  - Has to have sun baths
  - None of the Above
51. Sagging is
- Bending of the hull so that the fore and aft drafts are lower than the middle
  - Bending of the hull so that the fore and aft drafts are higher than the middle
  - Bending of the hull so that the fore and aft drafts are same level with the middle
  - Bending of the hull so that the Port and Starboard ends of the keel are even.
52. What is SOPEP?
- Shipboard Oil Pollution Emergency Plan
  - Ship operated pollution emergency prevention
  - ship oil Pollution Emergency Purpose
  - None of the Above
53. What is the Flash point of Oil means
- Temperature at which it is possible to ignite the Vapor above the liquid
  - Temperature at which vapor condensate
  - Temperature at which liquid becomes Gas
  - None of the Above
54. The disadvantage of a union purchasederrick system
- Fast and efficient method of loading and discharging cargo
  - Easy to handle by one man as there are only two moving parts two cargo runner
  - Re-positioning the derricks is time-consuming
  - Cargo movement is under more control, less swinging movement, less damage
55. What is the purpose of the deck water seal on the deck of an oil tanker?
- To prevent combustion gases to flow back and enter the burner
  - To prevent Deck water entering in to the Tank
  - To prevent Sea Water on deck
  - None of the above
56. Purpose of Ramp is to
- Loading and unloading of mobile unit of car carriers
  - Pumping in Ballast water to Side tanks
  - Washing ships stern from Sea water
  - None of the above

57. Good Hygiene can be maintained by

- a) Personal Cleanliness
- b) Regular Exercises
- c) Sensible Diet
- d) All of the above



58. Booby Hatch means

- a) A small opening to hatch with a cover
- b) A large opening on the Hatch cover
- c) A small opening of a Watertight Door
- d) A Large opening in a tank

59. Types of Intermediate Twist Locks are

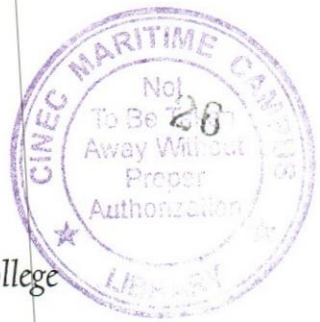
- a) Manual Twist Locks
- b) Automatic Twist Locks
- c) Semi-Automatic Twist Locks
- d) All of the Above

60. Purpose of gas tight doors on car-carriers

- a) Security
- b) Fire safety
- c) Provide easy access
- d) None of the Above

End.

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Colombo International Nautical and Engineering College

CINECCAMPUS

Faculty of Maritime Sciences

Department of Navigation

EDUCATION & TRAINING COURSE: Pre-sea Training Course for Deck Ratings

COURSE CODE: ND-0125 - BATCH 157 & 158

FINAL EXAMINATION - QUESTION PAPER  
**NAUTICAL KNOWLEDGE**

- Answer all questions.
- Total Marks : 100
- Formulae and all intermediate steps taken in reaching your answer should be clearly shown.
- Diagrams should be shown wherever possible

Date:-10-04-2018

Pass mark 50%

Time allocated: 3.0 Hours

1. With reference to the magnetic compass name all Cardinal, Intercardinal, Intermediate, and by points Separately by a help of a diagram. (10 Marks)
2. Write down the procedure of chipping and painting of a corroded metal surface.. (05Marks)
3. Draw a basic diagram of a ship and insert the relevant numbers of the following parts in the diagram. (10 Marks)  
(a) Anchor (b) Chain locker (c) Cargo hold (d) Rudder (e) Bridge (f) Propeller  
(g) Funnel (h) Life boat (i) Engine room (j) Poop deck (k) After peak tank  
(l) Fore peak tank (m) Main deck (n) Monkey island (o) Christmas tree (p) Fore castle head  
(q) Accommodation block (r) Steering gear flat (s) Double bottom tanks (t) Engine room double bottom tanks
4. Write down the procedure of taking sounding of a fresh water tank (06 Marks)
5. Sketch the 3<sup>rd</sup> shackle marking of the anchor cable and name all parts (10 Marks)
6. Name 10 duties to be carried out in Port watch (10 Marks)
7. Draw a diagram of a gun tackle rigged to disadvantage and name all parts. (05 Marks)
8. (1) Draw a diagram of a shackle and name all parts (05 Marks)  
(11) Draw and name all parts of a stockless anchor (05 Marks)

*Perera*  
2018

*H. C. H. H.*

9. Write down the special area for garbage under Marpol annex V

(05 Marks)

10. The following helm orders are given in consecutive order, write down what you do in each situation.

(05 Marks)

S.No	Order	Reply by helmsman	Action	Final Report
01	TEST THE GEAR			
02	HARD A PORT			
03	EASE TO TEN			
04	MIDSHIPS			
05	CHECK HER			
06	STEER 210°			
07	STEER 220°			
08	MIDSHIPS			
09	STARBOARD 20°			
10	STEADY			

## MULTIPLE CHOICE QUESTION PAPER

ANSWER ALL QUESTIONS ----- 02 MARKS FOR EACH QUESTIONS

1. What are the types of steering methods used on board ships
  - (a) Manual steering & Emergency steering
  - (b) Emergency steering & Auto pilot steering
  - (c) Auto pilot steering & Manual steering
  - (d) Manual steering / Auto pilot steering & emergency steering
  
2. What are the shapes to be shown vertically on X mas tree during daytime when a vessel is not under command
  - (a) Three black ball shapes
  - (b) One black ball shape
  - (c) Two black ball shapes
  - (d) Black ball shape , Black diamond shape and black ball shape
  
3. Emergency steering has to be carried out from :-
  - (a) The Bridge
  - (b) Engine room
  - (c) Steering gear flat
  - (e) Poop Deck
  
4. Letters of SOLAS stands for :-
  - (a) Ships of life at sea
  - (b) Standard of life at sea
  - (c) Safety of life at sea
  - (e) Safety of life raft at sea
  
5. Cable laid rope consist of :-
  - (a) Four strands with shroud
  - (b) Three strands
  - (c) Eight strands
  - (d) Three hawser laid ropes twisted to the left
  
6. Reciprocal Course Means :-
  - (a) The course the vessel is steering
  - (b) The course laid on the chart
  - (c) Direction to a light house
  - (d) The course opposite to the vessel is steering

7. Duties given in the muster list are :-

- (a) Watch keeping duties
- (b) Duties before anchoring
- (c) Day to day work duties
- (d) Duties to be carried out in an emergency

8. A Vessel Under way means

- (a) A vessel in distress
- (b) A vessel aground
- (c) A vessel at anchor
- (d) A vessel not at anchor / not made fast to ashore / Not aground

9. Cardinal buoys are used to mark

- (a) Anchorage
- (b) Wrecks / dangers
- (c) Channels
- (d) Safe water marks

10. IALA channel marking system (A) region is used by :-

- (a) USA / Japan / Korea / Philippine
- (b) Russia / France / Germany
- (c) Europe / Asia / Australia / New Zealand
- (d) Europe / USA / Japan

11. The allowed angle between runner wires of the union purchase derrick system is :-

- (a) Less than 90°
- (b) More than 90°
- (c) Less than 120°
- (d) More than 120°

12. Magnetic course means :-

- (a) Angle between true north and ship's heading
- (b) Angle between magnetic north and ship's heading
- (c) Angle between true north and magnetic north
- (d) None of these