

UNIVERSITY OF COLOMBO-SRI LANKA

FACULTY OF ARTS

FOURTH YEAR EXAMINATION IN ARTS (ECONOMICS)-2021/2022

(End of First Semester)

ECN 4162 – Planning of Shipping and Port Operation

TIME ALLOWED: TWO (2) HOURS

**PART I**

**Question No. 1 (30 Marks) - This Question is COMPULSORY.**

- (i) Compile a detailed Time Sheet and calculate Demurrage or Dispatch due from the information within the following Statements of Facts. (12 marks)

**Vessel: 'Mv. Pacific Brave'**

Loading port – Gladstone, Australia

Vessel arrived	1900 Hours	Monday	28 <sup>th</sup> February
NOR tendered	2100 Hours	Monday	28 <sup>th</sup> February
Loading commenced	0700 Hours	Tuesday	01 <sup>st</sup> March
Loading completed	1300 Hours	Sunday	06 <sup>th</sup> March
Vessel sailed	0100 Hours	Monday	07 <sup>th</sup> March

Cargo loaded - 20,000 MT Grain

**Charter Party States:**

- Laytime to commence at 1300 hours if notice is given before Noon, at 0700 hours next working day if it is given in the afternoon: Notice to be given in ordinary working hours.
- Cargo to be loaded at the rate of 5000 metric tons per weather working day of 24 consecutive hours.
- The port loaded the vessel 24 hours per day Demurrage rate USD 5000 Per Day and Pro-Rata/Dispatch at half demurrage rate on laytime saved.
- On Tuesday 01st March Rain Stopped loading between 0900-1200 hours. On Wednesday 02nd March Rain stopped loading between 1000-1100 hours.
- No local, national, or international holidays occurred during this period.

- (ii) In the context of Laytime, explain ALL the following terms: (08 Marks)

- Commencement of Laytime
- Interruptions of Laytime
- Statement of Facts
- Non-Reversible Laytime

- (iii) Briefly explain any FIVE (5) of the following terms used in Chartering Practice. (10 Marks)

- Off Hire Clause
- Demurrage
- Salvage
- Laycan
- Warranty of Authority
- Dead Freight
- Disponent owner

## PART II

**Answer any TWO (02) questions from this part**

### Question No. 2 (25 Marks)

- (i) List out the responsibilities to the Charterer under Bareboat charter Party. (05 Marks)
- (ii) What are the factors taken into consideration to prepare Voyage Economics from Ship Owner's perspective. (05 Marks)
- (iii) Describe any FIVE (05) of the following common chartering abbreviations and give explanation of their meanings. (15 Marks)
  - a. FIO
  - b. SHINC
  - c. CHOPT
  - d. DDU
  - e. C&F
  - f. NOR
  - g. WWD

### Question No. 3 (25 Marks)

- (i) Explain the importance of Container Safety Certificate (CSC) plate? (06 Marks)
- (ii) Examine the consequences arise if any lines, NVOCC or container operators are not following guidelines of the CSC plate? (13 Marks)
- (iii) Draw a chart of the six movements involve in handling equipment control and explain each of the movements. (06 Marks)

### Question No. 4 (25 Marks)

- (i) "Port is known as Heart of the Nation" Provide analytical reasons for your answer? (07 Marks)
- (ii) List out port facilities that are required for Navigation & Cargo Handling? (06 Marks)
- (iii) Identify the activities involved in direct and indirect terminal operation? (06 Marks)
- (iv) What are the different cargo handling terminals in a Port? (06 Marks)

### Question No. 5 (25 Marks)

"Shipping Industry has been evolving for centuries and the technological advancements of the shipping industry was able to dictate the size and the shape of the ships. But there are other important things to be considered when designing future ships."

- (i) Briefly explain the categorization of bulk carriers considering the size of the vessels. (5 Marks)
- (ii) Examine how the ballast water problem could be solved in future ships. (10 Marks)
- (iii) Explain how the engine and fuel choices would change in future ships. (10 Marks)

## PART III

**Answer any ONE (01) question from this part**

### Question No. 6 (20 Marks)

- (i) Describe Shipper own container (SOC) and Carrier own container (COC) activities and how this operation involves when shipper uses SOC or COC units? (05 Marks)
- (ii) What are the responsibilities that need to be followed by Principals and Shipping agents when handling equipment? (10 Marks)
- (iii) Examine the activities and operation of Internal Container Depot (ICD) yard. (05 Marks)

**Question No. 7 (20 Marks)**

- (i) What is FCL & LCL and explain how import LCL containers are handling in the Port of Colombo? (05 Marks)
- (ii) What are your suggestions to improve ship turnaround time in a port / terminal? (05 Marks)
- (iii) What are the advantages & disadvantages of Containerization? (05 Marks)
- (iv) List out the different terminal planning requirement for a smooth terminal operation? (05 Marks)

**Question No. 8 (20 Marks)**

“Seafarers are known as the most valuable asset of the maritime industry. Nowadays, the maritime industry is facing issues due to the lack of qualified seafarers. The ongoing COVID-19 pandemic has also contributed to worsening this issue.”

- (i) Critically evaluate the means and ways to improve the maritime education in Sri Lanka to increase the supply of qualified seafarers. (10 Marks)
- (ii) Examine the problems faced by crewing agencies during the COVID-19 pandemic and briefly discuss the recommended solutions by the stake holders in maritime industry. (10 Marks)

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