

UNIVERSITY OF COLOMBO  
FACULTY OF ARTS  
FOURTH YEAR EXAMINATION IN ARTS (ECONOMICS) 2017/2018  
END OF THE SECOND SEMESTER

**ECN 4262: PLANNING OF SHIPPING AND PORT OPERATIONS**

TIME ALLOWED: TWO (02) HOURS

*Answer the compulsory question of part -I and any THREE (3) Questions from Part - II*

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PART- I (Question no. 1 in Part – I is Compulsory)

Question 01 [40 Marks] – This Question is Compulsory

The Statement of Facts (SoF) pertaining to Mv. "Ashico Victoria" is given below:

|                   |                                  |
|-------------------|----------------------------------|
| Arrived load port | 0400 hours on Monday 03rd March  |
| NOR tendered      | 1000 hours on Monday 03rd March  |
| Loading commenced | 0700 hours on Tuesday 04th March |
| Loading completed | 0600 hours on Monday 10th March  |
| Vessel sailed     | 0900 hours on Monday 10th March  |

Cargo Loaded 20,000 M/Tonnes of Grain

Charter Party states:

- Laytime to commence at 1300 hours if notice is given before noon, at 0700 hours next working day if given afternoon. Notice to be given in ordinary working hours.
- Cargo to be loaded at the rate of 5000 metric tonnes per Weather Working Day of 24 consecutive hours
- Demurrage rate USD 5000 Per Day and pro- rata / Despatch at half Demurrage rate on laytime saved.
- 05 days laytime allowed for loading and laytime not count 1200 hours Saturday until 2400 hours on Sunday

On Tuesday 04th March, rain stopped loading between 1000 - 1600 hours

On Thursday 06th March the vessel was unable to load cargo between 1000 - 1600 hours due to the technical problem with conveyor belt, stopping the supply of grain to the vessel.

- (i) Compile a detailed Time Sheet and calculate Demurrage and Dispatch due from the information in the above SoF pertaining to Mv. "Ashico Victoria" (12 Marks)
- (ii) Compare the different responsibilities of a charterer under Time Charter and Voyage Charter for two ships chartered by him. (08 Marks)
- (iii) Explain four (04) of following terms used in Chartering Practice (05 Marks each)
  - (a) Laytime
  - (b) NOR
  - (c) Despatch
  - (d) FIO
  - (e) BBB
  - (f) SHEX

**PART- II**

**(Answer any THREE Questions)**

**Question 02 [20 Marks]**

- (i) "DRAFT MARKS" and "LOAD LINES" are very important for a ship. Give your reasons for the above. (08 Marks)
- (ii) Write short notes on the following. Your answer should have sketches. (3 Marks Each)
- a). GRT.                      b) DWT                      c). FOC.                      d). FREEBOARD

**Question 03 [20 Marks]**

- (i) Name the main dimensions of a ship which are required by the Port Authorities when you want to bring a ship into the harbour. Explain your answer with the aid of sketches.
- (ii) What do you understand by "CLASSIFICATION" and "REGISTRATION" of a ship. Explain in brief.

**Question 04 [20 Marks]**

- (i) Identify different types of shipping markets. (05 Marks)
- (ii) Explain three key types of special cargo namely OOG, Reefer and DG. (15 Marks)

**Question 05 [20 Marks]**

- (i) What is container inventory imbalance? (05 Marks)
- (ii) Discuss about the relationship of derived demand factor in Shipping and container inventory imbalance (CII) and explain the key contributory factors. (15 Marks)

**Question 06 [20 Marks]**

- (i) Answer TWO Sections from below :
- (a) What are the different cargo handling terminals in a Port? (4 Marks)
- (b) List out cargo handling gears and equipment used in a Port? (4 Marks)
- (c) What are the activities involved in direct & indirect terminal operation? (4 Marks)
- (ii) "Container Terminals use advance container terminal management and operating computer systems". What are the main terminal planning requirements for a container terminal? (12 Marks)

**Question 07 [20 Marks]**

- (i) Identify three main shipping routes. (5 Marks)
- (ii) Select one of the three main routes and explain a voyage of a container ship. (15 Marks)

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