



Name :

Roll No. :

Invigilator's Signature :

CS/MBA/SEM-3(FT)/PLM-303/2012-13

2012

PORT OPERATION MANAGEMENT

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

GROUP - A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following :

10 × 1 = 10

- i) A shipping port is a facility for
 - a) receiving ships and / or transferring cargo
 - b) receiving ships and / or repairing vessel
 - c) receiving ships and / or storing cargo.
- ii) A seaport can be a
 - a) cargo and cruise port
 - b) cargo and fishing port
 - c) both (a) and (b).
- iii) Feature of a good seaport is characterised by
 - a) a harbour with sufficient draft and repair facilities
 - b) a harbour with close proximity to city and good draft
 - c) a harbour with good draft and distribution facilities.



- iv) The most important criteria in an 'Efficient Port' is characterised by
 - a) custom of the port
 - b) quick ship turn around
 - c) providing alternative choice of berths.
- v) The most important effect of changing ship technology on port infrastructure is
 - a) increasing ship size
 - b) development of cargo handling features
 - c) both (a) and (b).
- vi) The most important criteria for a ship owner/shipper's choice of port is
 - a) range of available port facilities
 - b) port and associated tariff structure
 - c) overall trade transport service.
- vii) Most important factor towards building of a berth is
 - a) based on all-round observation
 - b) availability of rail lines
 - c) adequate provision for storing and distribution of cargo.
- viii) In modern times, most important technical developments affecting port is
 - a) effects of computer on communication
 - b) changes in ship management attitudes
 - c) shift of cargo loading aspects from ship to shore and vice versa.



- ix) A port can be
- a) an enclosed area by the sea for the ships
 - b) an enclosed shelter by the sea for the ships
 - c) an enclosed ship-handling area by the sea.
- x) Locks are integral part of
- a) Berth
 - b) Dock
 - c) Wharf.

GROUP - B

(Short Answer Type Questions)

Answer any *three* of the following.

3 × 5 = 15

2. a) What are average port non-cargo handling disbursement heads ?
- b) In context of (a), what are cost heads under cargo handling ?
3. a) List the important criteria due to which about 20 ports around the world became major ports from the beginning of 2000 onwards.
- b) Why is hydrographic surveying necessary in a port channel and riverine ports ?
4. a) Enumerate different functions and features of a port.
- b) Enlist important facilities and services as provided by a port.
5. a) Explain vessel traffic services (VTS).
- b) Enlist its different categories as per port operation and also under BIMCO Bulletin directive.
6. a) Enlist different types of trailers used to move containers in a terminal.
- b) Enumerate different types of cranes used in a port.

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GROUP - C
(Long Answer Type Questions)

Answer any *three* of the following.

3 x 15 = 45

7. What are the principal causes of port environmental pollution ? Enumerate priority environmental issues as per latest Lhayd's list.
8. a) Enlist and discuss the port employees / workers who will need training and licensing for working with port / around port waters.
b) Enlist different modes of inland transport for cargo distribution from a seaport.
9. Enlist the essential factors which influence port development. Explain the related issues in brief.
10. How is the optimum number of Berths required in a port arrived at ? Discuss different methods to analyse quantitatively.
11. What are the major factors constraining port development ? Explain in brief, underlining reasons.

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