

Name :

Roll No. :

Invigilator's Signature :

**CS/MBA(NEW)/SEM-3(FT)/PLM-303/2009-10
2009**

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 any *ten* of 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 ship management attitudes
 - c) shift of cargo loading aspects from ship to shore and vice versa.



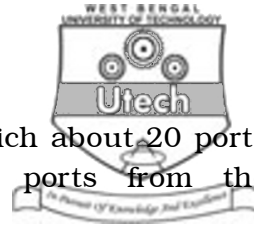
- ix) The principal objectives of port management after adoption of quality management system is
- a) rapid port development
 - b) ways of minimising costs and maximization of benefits
 - c) port as economic multiplier of a region.
- x) Port policy is a concern of
- a) Central Government
 - b) State Government
 - c) Local Administration.
- xi) Advantage of a Free port is that, it
- a) reduces time and effort of custom formalities
 - b) is outside sovereignty of a state, resulting freedom of business
 - c) is strategically well connected with all major ports around the world.
- xii) The international conventions related with port environmental matters are
- a) MARPOL 73/78 & SOLAS 74/78
 - b) OPRC 90 & UNCED 92
 - c) Both (a) and (b).

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

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 revenue 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 cranes used in a port.

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

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.