



Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS/MBA (NEW)/SEM-3(FT)/PLM-303/2011-12**

**2011**

**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 :  $10 \times 1 = 10$

i) 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.

ii) Locks are integral part of

- a) Berth
- b) Dock
- c) Wharf.



- iii) Load line of a ship is
  - a) vertical distance between maximum water line and bottom of the ship
  - b) horizontal distance of maximum water line length-wise
  - c) vertical distance between minimum water line and bottom of the ship.
- iv) Optimum number of berths required in a ship is a balance between
  - a) Port dues and cost of berth
  - b) Berthing time and waiting time
  - c) Port operation cost and ship operation cost.
- v) Port development has been influenced by
  - a) increase in size of ships
  - b) increase in type of ships
  - c) both of these.
- vi) In cargo handling, maximum truck capacity is of a
  - a) side lift truck
  - b) reach stacker crane truck
  - c) mobile portal crane truck.
- vii) Free port establishment is most influenced by
  - a) State Government policies
  - b) Geographical position
  - c) Hinterland connectivity.
- viii) Port-dues are set by
  - a) State Government
  - b) International conventions
  - c) National law.
- ix) Introduction of environmental policy in a port is
  - a) mandatory
  - b) desirable
  - c) may be exempted with.



- x) Most important reason of port operational delay is due to
- Handling equipment breakdown
  - Non-availability of cargo
  - Absenteeism.
- xi) Congestion in a port is caused by
- lack of management
  - lack of port facility
  - lack of cargo facility.
- xii) T.E.U. for a container stands for
- Ten Equivalent Unit
  - Twenty Equivalent Unit
  - Total Equivalent Unit.

**GROUP – B**

**( Short Answer Type Questions )**

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

- What are the principal elements of port dues ? Briefly explain the methodology adopted by a port to fix port-dues on a visiting ship.
- Highlighting objectives of V.T.S. of a port, enumerate different functions that it is associated with.
- In planning of port development, how optimum number of berth for a port is arrived at ? Describe the method with a graphical representation.
- What all advantages a state and a ship received through a 'Free port' ? What all national laws are applicable and not applicable against a ship visiting free port ?
- Enumerate port-related pollution claims. Highlight level of risk and its influence on pollution claims by a port.



**GROUP – C**

**( Long Answer Type Questions )**

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

7. What are the objectives of a port operation management under ISO-9000 ? Explain its features with reference to its major functions.
8. What are the different common problems and constraints faced by port management authorities ? Out of these, which factors affect port development & why ?
9. Highlight different types of cargo-handling equipment and trucks used commonly in a port. Out of these, explain the different container-handling vehicles explaining their features.
10. Briefly explain port-management authority underlining its different divisions. Out of these, highlight the role of “Audit & Systems” and “Operation” divisions in a modern day port.
11. Highlight the importance of a container in shipment of break-bulk cargo. How such cargo is loaded and transported via containers on a ship ? What is the importance of safety plate attached ?

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