

**INDIAN MARITIME UNIVERSITY**  
**(A Central University, Government of India)**

**December 2017 End Semester Examinations**

**Third Semester – Master of Business Administration**  
**International Transportation and Logistics Management**

**Warehousing & Inventory Management (PG22T2305)**

**Date : 22.12.2017**

**Time: 3 Hrs**

**Maximum Marks: 60**

**Pass Marks: 30**

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**Part-A**

**(12x 1= 12 Marks)**

**(Answer All Questions)**

**Choose the correct answer:**

1. In the modern form of metric system the abbreviation "SI" stands for \_\_\_\_\_.
  - a) System of International units
  - b) Standard of International units
  - c) International standard of units
  - d) International system of units
  
2. All are true concerning contract warehousing, except \_\_\_\_\_.
  - a) 3–5 year contracts appear to offer benefits to both user and provider
  - b) more cost effective than private warehousing
  - c) more flexible than public warehousing
  - d) can also be referred to as third-party warehousing
  
3. Which type of warehouse cost consists of the cost of space per cubic square foot and may further include rent or mortgage, property taxes and utilities
  - a) General Overhead Cost
  - b) Generic Cost
  - c) Labor cost
  - d) Delivery cost
  
4. Which one of the following inventory systems ascertains the balance of stock or amount of stock at the end of an accounting period or at the

time of physical inventory count?

- a) Periodic inventory system
- b) Perpetual inventory system
- c) Continuous physical stock taking inventory system
- d) None of these

5. \_\_\_\_\_ tend to be the standard workhorse in many warehousing facilities.
- a) Dock carts
  - b) Forklifts
  - c) Conveyor systems
  - d) Pallet jacks
6. What is the main benefit of WMS
- a) Transparency in inventory storage and accuracy
  - b) Reducing inventory storage levels
  - c) Reduces shipping costs and shipping errors
  - d) All of these
7. The major problem addressed by the warehouse layout strategy is \_\_\_\_\_.
- a) requiring frequent contact close to one another
  - b) minimizing difficulties caused by material flow varying with each product
  - c) addressing trade-offs between space and material handling
  - d) the movement of material to the limited storage areas around the site
8. \_\_\_\_\_ productivity depends on the type of material equipment handling used, the location and accessibility of stock, warehouse layout, stock location system, and the order-picking system used.
- a) Material
  - b) Labor
  - c) Picking
  - d) Equipment
9. Which of the following affects ROI
- a) Capital employed
  - b) Depends upon underlying assumptions
  - c) Profit
  - d) Both of the above

10. Which of the following rule-of-thumb formula can be used to calculate the likely space requirement for staging vehicles on arrival and departure?
- a)  $\text{Space} = (\text{No. of loads} / \text{hours to unload}) \times \text{Time of shift} \times (\text{No. of pallets} \times \text{space per pallet})$
  - b)  $\text{Space} = (\text{No. of loads} / \text{hours to unload}) \times \text{Time of shift} \times (\text{No. of pallets} \times \text{space per pallet})$
  - c)  $\text{Space} = (\text{No. of loads} \times \text{hours to unload}) / \text{Time of shift} \times (\text{No. of pallets} \times \text{space per pallet})$
  - d) None of the above
11. Which barrier material is recommended to prevent liquid spillage?
- a) Dry brushing
  - b) Sand bags
  - c) Vacuum cleaner
  - d) None of these
12. In the context of warehouse waste management WEEE stands for
- a) Waste Electrical and Electronic Equipment
  - b) Waste Electrical and Electronic Engineering
  - c) Warehousing Electrical and Electronic Equipment
  - d) Warehousing Electrical and Electronic Engineering

**Part-B (5x 4= 20 Marks)**

**(Answer ANY FIVE Questions not exceeding 200 words each. All Questions carry equal marks)**

13. Write a note on the role of different warehousing operations.
14. Briefly explain the characteristics of an ideal warehouse.
15. Discuss in detail various picker to goods strategies used in warehouses.
16. Describe any four storage equipment's used within the warehouse for pick operations.
17. What is Software as a service? Explain its benefits to a warehouse.
18. Explain the rules to be followed in order to make a sound outsourcing partnership.

19. List out various requirements for mechanical handling and lifting equipment as per the warehousing equipment legislations.

**Part- C**

**(4 x 7 = 28 Marks)**

**(Question No.20 is compulsory. Answer any THREE from the remaining questions. Each Analysis/ Answer should not exceed 500 words)**

20. The annual demand for a product is 6,400 units. Inventory carrying cost is Rs. 1.50 per unit per annum. If the cost of one procurement is Rs. 75/-, determine:
- Economic order quantity;
  - No. of orders per year;
  - Time between two consecutive orders.
21. What are the factors stands as criteria in selection of an appropriate warehouse location.
22. Make a diagrammatic representation of warehousing process and explain each component briefly.
23. Discuss the stages involved in selecting the right WMS.
24. Explain in detail various pallet racking configurations used in warehouses.
25. Evaluate the stages of risk assessment in warehousing activities.

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