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**MWR–003**

**P. G. CERTIFICATE IN INVENTORY  
PLANNING AND WAREHOUSING  
SYSTEM FOR ENGINEERS  
(PGCIPWS)**

**Term-End Examination**

**December, 2023**

**MWR–003 : WAREHOUSING SYSTEM**

*Time : 3 Hours*

*Maximum Marks : 70*

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**Note :** Answer any **seven** questions. All questions carry equal marks.

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1. (a) Describe key objectives of warehousing. 4  
(b) How does modern warehousing system differ from traditional one ? Explain. 6
2. Describe comparative advantages and disadvantages of any *two* warehouse types as given below :  $2 \times 5 = 10$ 
  - (i) Private Warehouse
  - (ii) Public Warehouse
  - (iii) Contract Warehouse

**P. T. O.**

3. Suppose a company wants to expand its logistics network and locate a facility (a new plant) within a network of three existing facilities A, B and C. X-coordinate and Y-coordinate of these warehouse locations and respective capacities of goods volume are described in the table : 10

Warehouse	(X, Y) Coordinates	Good Volume Capacity (units)
A	(200, 50)	2500
B	(300, 100)	1300
C	(100, 150)	5000

Use the center of gravity model, find the coordinates for the location of a new plant.

4. Discuss the following warehousing functions :

$$2\frac{1}{2} \times 4 = 10$$

- (i) Holding
  - (ii) Consolidation
  - (iii) Mixing
  - (iv) Postponement
5. For planning the layout and operations of a warehouse system, what are the fundamental principles to be followed ? Explain each of them in detail. 10

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6. (a) Describe any *four* mechanized material handling equipments, which are used in warehousing system. 6
- (b) Describe the 'Racking System' and 'Pallet' used in warehouse storage. 4
7. Explain any *four* important factors which affect the cost of warehousing system. 10
8. Discuss the role of ICT in warehousing system. 10
9. (a) Describe the stock verification process in any organization. 5
- (b) Explain the 'FIFO price method' of costing of materials used and valuation of stock in hand. 5
10. Write short notes on any *two* of the following : 2×5=10
- (i) Legal issues in warehousing system
  - (ii) Key performance indicators of warehousing system
  - (iii) Cross-docking

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