

PGCIPWS- 2022

ASSIGNMENT BOOKLET

**POST GRADUATE CERTIFICATE IN INVENTORY PLANNING
(PGCIPWS)**

Last date for submission:

31st October for July 2022 Session

**School of Engineering and Technology
Indira Gandhi National Open University
Maidan Garhi, New Delhi-110068**

Dear Student,

We advise you to go through your course material carefully and read all the section pertaining to assignments. A weightage of 30 per cent, as you are aware, has been earmarked for continuous evaluation which would consist of **one tutor-marked assignment** for each of MWR-01, MWR-02, MWR-03 and MIS-024 of this course. You have to score a minimum of 40 marks out of 100 marks in each of the assignments. **Submit your assignment response at Programme Coordinator (PGCIPWS), Block-C, School of Engineering & Technology, Indira Gandhi National Open University, Maidan Garhi, New Delhi - 110068**

A feedback form is enclosed with this assignment. Please complete it after solving this assignment and send it to the Course Coordinator (PGCIPWS) on the address specified on the feedback form.

Instructions for Formatting Your Assignments

Before attempting the assignment please read the following instructions carefully.

- 1) On top of the first page of your TMA answer sheet, please write the details exactly in the following format:

ENROLMENT NO:

NAME:

ADDRESS:

.....

.....

COURSECODE:

COURSETITLE:

ASSIGNMENT NO.:

STUDYCENTRE: **DATE:**.....

PLEASE FOLLOW THE ABOVE FORMAT STRICTLY TO FACILITATE EVALUATION AND TO AVOID DELAY.

- 2) Use only full size writing paper (but not of very thin variety) for writing your answers.
- 3) Leave 4 cm margin on the left, top and bottom of your answer sheet.
- 4) Your answers should be precise.
- 5) While solving problems, clearly indicate the question number along with the part being solved. Be precise. Recheck your work before submitting it.

Answer sheets received after the due date shall not be accepted.

We strongly feel that you should retain a copy of your assignment response to avoid any unforeseen situation and append, if possible, a photocopy of this booklet with your response.

We wish you good luck.

Assignment -1

(To be done **after** studying the course material)

Course Code: MWR-03

Course Title: Warehousing System

Assignment Code: MWR-03/TMA/2022

Maximum Marks: 100

Last Date of Submission: November 30, 2022

Note:

1. For any question worth 5 marks the word limit is 200 words, for a 10 mark question it is 350 words.
 2. All questions are compulsory. All questions carry equal marks.
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|-----|----|--|---|
| Q.1 | a) | What is warehousing? What is the need of warehousing? List out the Reasons for storage. | 5 |
| | b) | What are the objectives of warehousing? Explain the key functions of warehousing. | 5 |
| Q.2 | a) | Explain how warehouse layout design plays an important role in warehouse logistics management? | 5 |
| | b) | What is the significance of Warehouse safety and security in warehouse logistics management? Explain Job Safety Analysis. | 5 |
| Q.3 | a) | List out various types of warehouses based on the role that they play. List out different types of warehouses based on size and volume. | 5 |
| | b) | What are the types of Warehouses based on Structure and Shelving Method? Describe Mobile Shelving in warehouse storage system. | 5 |
| Q.4 | a) | Discuss certain situations which necessitate the facility- planning decision? | 5 |
| | b) | What do you understand by facility? What is facility planning? Discuss. | 5 |
| Q.5 | a) | What are the most commonly used subjective techniques while planning for a facility location? Explain. | 5 |
| | b) | ABC and Co. wants to establish a central go-down for their production centres located at S1(10,50) and S2(30,10) and market centres located as D1(40,60) and D2(60,70). The loads that are to be transported daily from production centres are 60 and 70 from S1 and S2, while that from go-down to the market centres D1 and D2 are 40 and 50 units respectively. Suggest the best location by using simple median method. Also calculate the cost of transportation at the rate of Re. 1.00 per unit (unit load distance). | 5 |
| Q.6 | a) | What are the technological aspects involved in today's warehousing. How ICT influences warehouse efficiency? | 5 |
| | b) | List out the various benefits of using ICT in a business. How ICT helps in decision making and productivity enhancement. | 5 |
| Q.7 | a) | What is warehouse distribution system? What are the goals for warehousing and distribution? | 5 |
| | b) | How perpetual inventory is a solution to warehousing issues? Explain. | 5 |
| Q.8 | a) | What are the different types of services of a distribution centre? Explain. | 5 |
| | b) | Discuss the process of setting distribution structure and steps involved in it. | 5 |

- Q.9 a) What is Vehicle Tracking System (VTS)? How does it help in fleet management? 5
- b) What is Fleet management system? What are the various requirements of a Fleet management system? 5
- Q.10 A company has four factories situated in different locations and five warehouses in different cities. The matrix of transportation cost (Rs. per unit) is given below with capacity (units) of factories and the requirement (units) of the warehouses. Find IBFS by (a) NWC (b) VAM (c) LCM: 10

	I	II	III	IV	Req.
A	4	8	7	6	150
B	9	5	8	8	50
C	6	5	8	7	40
D	5	8	6	3	60
E	7	6	5	8	200
Capacity	100	80	120	150	