PGCIPWS - 2026

ASSIGNMENT BOOKLET

Post Graduate Certificate in Inventory Planning and Warehousing System

(PGCIPWS)

Last date for submission:

30th April 2025 (January 2026 Session) 30th October 2025 (July 2026 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 units 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 – 001, MWR – 002, and MWR - 003 of this course. You need to score a minimum of 40 marks out of 100 marks in each of the assignments. **Submit scan copy of only handwritten assignments through e-mail and e-mail ID is pgcipws.assignment@ignou.ac.in.**

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) Only handwritten assignments acceptable. No typed assignments

6) 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.

We wish you good luck.

Assignment -1
(To be done after studying the course material)

Course Code: MWR – 001
Course Title: Warehousing System
Assignment Code: MWR – 001/TMA/2025
Maximum Marks: 100
Last Date of Submission: 30th April – 2026/30th October 2026

Note:

1. Attempt all questions. All questions carry equal marks.

Q.1	(a) What do you understand by inventory and its control. With the help of suitable examples, analyze the advantages and disadvantages of keeping inventory by a manufacturing company.	5
	(b) With the help of examples, explain the objectives of decoupling in inventory management.	5
Q. 2	With the help of suitable examples, describe various types of inventories used in service setup.	10
Q. 3	Describe various factors affecting inventory planning and control.	10
Q. 4	(a) With the help of a suitable diagram, discuss the fixed quantity order model of inventory control system.	5
	(b) A television manufacturer requires 20000 pieces of wire (each 2 cm long) every month for assembly. Ordering cost per order is Rs. 4000 and carrying (or holding) cost is 25 percent of the unit price. The price per unit of a piece is Rs. 25. Assuming delivery is instantaneous; find the economic order quantity (EOQ) and the reorder point.	5
Q. 5	(a) Discuss the FSN, SOS and XYZ analysis of inventory control technique.	5
	(b) Discuss advantages and limitations of using this analysis?	5

Q. 6 (10)

A company has the procurement pattern of five items irrespective of their level of demand as given in the table 1:

Table 1

Item No.	Annual Demand (Rs.)	No. of orders per year	Order Size (Rs.)
1	20,00,000	4	3,50,000
2	7,40,000	4	2,60,000
3	8,00,000	4	25,500
4	5,500	4	725
5	3,600	4	500

Reduce the inventory levels while keeping total number of orders per year the same.

Q. 7

(a) What do you mean by independent demand and dependent demand ? Give examples of each. (5)

(b) Describe any four major reasons to do demand forecasting. (5)

Q. 8 (5)

Demand for a certain auto component part for the last six months is given in the Table 2.

Table 2

Month	Demand (no. of units)
January	60
February	70
March	75
April	85
May	95
June	80

(a) Forecast the demand of auto component for the month of July using 3-months moving average method.

(b) Calculate forecasting error using MAD (5)

Q. 9

(a) Discuss the merits of proper stock accounting system. (5)

(b) Discuss the merits and demerits of annual stock verifications. (5)

Q. 10 Discuss the FIFO price method of costing of stock issued and valuation of stock in hand. (10)