



# INDIAN INSTITUTE OF MATERIALS MANAGEMENT

## NHQ- Education Wing

Plot Nos. 102 & 104, Institutional Area, Sector-15, CBD Belapur, Navi Mumbai- 400 614  
Phone: 022-45001022

**(PGDMM/ PGDL &SCM - 2 years course)**

**Assignments for July-December 2025 Session**

**(course code PGMM/ PGSM- for students enrolled w.e.f 01.01.2024)**

### IMPORTANT POINTS TO BE NOTED BY THE STUDENT:

1. Write your Name, Roll. No. on the answer sheet along with Session i.e. **July-December 2025**

**Each page of assignment must bear the roll number, semester number Name at top of each page and student's signature at the bottom of each sheet, without which assignments will be rejected(sample is attached)**

2. Submission of assignments is compulsory and marks obtained in assignments carry **30% weightage** in the final result.

3. Students are required to secure 50% marks in assignments to pass the examination.

4. Each subject will have one assignment..

5. Assignments must be written by the students in their own good hand writing and one copy of the same be retained with them to avoid inconvenience in the event of misplacement / loss of the same in transit.

6. The answers should be brief to the point and relevant to the questions given in the assignment. Do not reproduce your answers from the study materials sent to you.

7. Problems/queries with regard to assignments, if any, are to be discussed with respective branch/NHQ and during the contact classes.

8. **Write your answers on the attached sample answer sheets only**

9. Assignments must be send to IIMM NHQ Education Wing by 31<sup>st</sup> October 2025 by email in PDF format to [iimmassignments@gmail.com](mailto:iimmassignments@gmail.com). It must not be shared through Google drive. If the file size is big send separate mails.

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**PGDMM/PGDL & SCM – 2 years**  
**(Semester - 2)**  
**Assignments for July-December 2025 Session**  
**(course code PGMM/ PGSM )**  
*for students enrolled w.e.f 01.01.2024*  
**Paper - 6**  
**Research Methodology**

**TOTAL MARKS 30**

**Question No.1**

**Marks 15**

*(Students should go through the chapter 1,3 & 6 before answering the questions below)*

- a) Research is applied in several fields of management for various reasons and also has wide applicability in many functional areas of management. In this context discuss how research is applied in many functional areas of management.
- b) It is said that every researcher needs a research design for conducting research. Justify this statement elaborating on the need for research design and also discuss the characteristics which a good research design should possess.
- c) Every type of research requires data to be collected from various sources for research study. There are mainly two types of data – Primary Data and Secondary Data. In this context, distinguish between these two types of data and explain the factors which will affect the selection of appropriate method of data collection.

**Question No.2**

**Marks 15**

*(Students should go through the chapter 8 to 10, before answering the questions below)*

- a) Every researcher needs to collect data for conducting the research. After collecting the data, the same needs to be processed for converting the raw data into a form which is fit for analysis. As a researcher, you have collected raw data for your research study. Explain the step-by-step procedure you will follow for processing your data for analysis.
- b) Distinguish between parametric and non-parametric tests in hypothesis testing. What are the likely reasons for choosing non-parametric over parametric testing? Identify the different types on non-parametric tests. Briefly explain how you will conduct a chi-square test to find out association between variables.
- c) It is a guess that 20% of passengers in unreserved coaches travel without tickets. In a week, checking the tickets of 256 passengers selected at random from different coaches of different passenger trains, 36 passengers were found without tickets. Would you regard the guess of 20% as true? If not, would you say, it is most probably less than 20%? ( $\alpha = 0.055$ ,  $Z = 1.96$ )

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**Paper - 7**  
**Financial Accounting**

**TOTAL MARKS 30**

**Question No.1**

**Marks 15**

*(Students should go through the chapter 5 before answering the questions below)*

A newly start up company maintained its book of accounts and found both columns of Dr and Cr side matching meaning thereby mathematical accuracy in the accounting. When submitted before the auditors, discovery of errors was observed. For instance, a purchase of office supplies of Rs 1,45,000 was erroneously debited to the Office Equipment a/c. Additionally, a sales invoice of Rs 80,000/ was mistakenly recorded twice, inflating the Sales Revenue. Another significant error involved the omission of a payment made to the vendor amounting to Rs 65,000/, which was neither recorded in the Cash Book nor the Ledger.

Respond to the following:

- a) Explain integrity and reliability i.e true and fairness of financial statements.
- b) Do the rectification of three entries.
- c) Guide the startup company on identification of errors.

**Question No.2**

**Marks 15**

*(Students should go through the chapter 11 before answering the questions below)*

M/s Star Enterprises plan to engage a professional to prepare the Master Budget for their coming up mega project in healthcare. You as an Associate need to support him on following issues:

- a) Budget process initiated.
- b) Compilation of data collected.
- c) Bifurcation of data between Operating Budget and Financial Budget

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**Paper - 8**  
**Supply Chain Management**

**TOTAL MARKS 30**

**Question No.1**

**Marks 15**

*(Students should go through the chapter 2,4 & 6 before answering the questions below)*

- a) Every organization strives to have a competitive edge over others in the market place. To achieve this objective, the organizations need to align the capabilities of their supply chains with their business strategies and maintain a balance between supply chain efficiency and responsiveness. This is achieved by proper utilization of various supply chain cost drivers. In this situation, Inventory plays an important role as a key supply chain driver. Given this context, explain the importance of inventory, the different types of inventories and their impact on the supply chain costs.
- b) For any manufacturing organization, there are two broad approaches to structuring the supply chain – Lean Supply Chain Management and Agile Supply Chain Management. Bring out the key differences between these two supply chains. Your organization has adopted the lean manufacturing system.in this context, explain the main features of lean manufacturing system and the tools and techniques of this system.
- c) Unlike the traditional supply chains that focus on flow of products from the producers to the consumers, reverse supply chains emphasize the backward flow of products from the consumers. In this context, explain the need for such reverse flow and the key components of reverse supply chains. Also, discuss the different types of reverse supply chains

**Question No.2**

**Marks 15**

*(Students should go through the chapter 7 to 12 before answering the questions below)*

PQR Ltd is medium scale manufacturing unit engaged in the field of industrial valves and is located in three places- Nasik, Bangalore and Rudrapur. The procurement activity is mainly divided in four sections: (a) Raw Materials (b) Machinery and Spare parts (c) Outsourcing of components as per drawing (d) Consumables, Packaging materials, Administration and other miscellaneous items. The company has its own foundry, forging and machining shops in-house capable of manufacturing their entire range of valves. However, many of the procurement decisions are taken for outsourcing the various components as per need.

Currently the company has appointed a consultant having varied experience in executing Supply Chain Management assignments mainly in Chemical Processing Industry. The consultant has got this assignment for the first time for any manufacturing industry. Consultant initially made the following observations:

- Use of computerization is in piecemeal basis leading to lot of manual efforts required to get the data.
- Traceability of stored items and files is very poor leading to lot of inconvenience when the same are really required.
- Rush and urgent purchases are much more. Purchase Head is working always on his toes.
- Inventory of spare parts and outsourced components is very high compared to sales turnover.
- The list of non-moving items is very big and consisting of huge amount.

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- Time taken for placement of order from the date of purchase requisition is very high.
- There is lack of co-ordination between user department and materials management department.

The consultant proposed to carry out benchmarking study with global standards and to take corrective actions to enhance purchasing efficiency to achieve goal of low cost manufacturing and enhanced profitability of the company.

**Questions:**

- a) Prepare an action plan for taking corrective actions for resolving the issues raised by the consultant.
- b) What differences will it make to company's current working on routine basis?
- c) What is your opinion about implementation of assignments given by consultant in achieving organizational goals?

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**Paper - 9**  
**IT Applications in Management**

**TOTAL MARKS 30**

**Question No.1**

**Marks 15**

*(Students should go through the chapter 1 ,3 & 5 before answering the questions below)*

JioMart uses an Omni channel retailing approach, where the consumer journey is seamlessly integrated across physical Reliance stores, the JioMart website, mobile app, WhatsApp commerce, and third-party delivery services.

- a) How does JioMart utilize it to create a seamless customer experience?
- b) What role does digital transformation play in JioMart's day to day operations and decision-making?
- c) What are the data security or data privacy implications?

**Question No.2**

**Marks 15**

*(Students should go through the chapter 7,9 &10 before answering the questions below)*

As the demand for cloud computing and data storage grows, so does the environmental Footprint of data centers. These centers consume vast amounts of electricity, largely due to the cooling systems required to maintain optimal performance and to develop a system that could improve energy efficiency using Artificial Intelligence.

- a) List and explain some measurable benefits achieved by integrating AI into business functions.
- b) Discuss AI-based optimization methods in terms of environmental sustainability.
- c) What are some strategic technology trends that business is leveraging through AI?

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**Paper - 10**  
**Operations Management**

**TOTAL MARKS 30**

**Question No.1**

**Marks 15**

*(Students should go through the chapter 1 ,3 & 6 before answering the questions below)*

- a) In today's competitive business environment, Operations Management, as a key functional area, provides a source of competitive advantage in the market place by ensuring greater flexibility in systems and practices and by being responsive to customer needs. In this context explain the key operations functions that help in achieving the goal of providing competitive advantage.
- b) Every manufacturing organization develops an effective Master Production Schedule (MPS) for time-phased production of multiple items. This MPS is based on the aggregate production planning (APP) for a given time horizon. Besides, MPS is also used for controlling inventory costs, production costs, forecasting demands and providing matching supply of capacity, and staffing, on a period-by-period basis. Given this context, explain how you will perform these multiple functions with the help of MPS. Illustrate your answer with a relevant example, with a neat diagram.
- c) You are an engineer with working experience in both manufacturing and service sector industries. You are now planning to set out as an entrepreneur and establish your own facility but not yet decided whether it should be in manufacturing or service sector and also the amount of capacity to be invested in the facility. For the benefit of your readers, please explain your understanding of the meaning and types of capacity and the similarities and differences between manufacturing capacity and service capacity.

**Question No.2**

**Marks 15**

*(Students should go through the chapter 9 before answering the questions below)*

Delana is a production analyst at the Golden Kernel processing plant, which processes whole kernel cut corn. Delana's current project is to evaluate different levels of automation for quality control inspection of corn kernels. Option 1 is to assign a number of employees along the conveyor belt to inspect the corn kernels manually as they go by and pick out small and off-color kernels. Option 2 involves using fewer employees who only check for off-color kernels and then running the corn over a screen that filters out the small kernels. Option 3 is to purchase a state-of-the-art, fully automated machine that uses video cameras, a computer workstation, and small bursts of air. This new machine can automatically inspect individual kernels of corn for size and color as the conveyor belt moves the kernels in a single layer by the machine. Inferior kernels are removed by a precisely placed small burst of air as the kernels pass over a perforated air tube. As Delana expected, the initial costs of the options vary substantially. She investigated the cost of each option and has summarized the information in the following table:

	Option 1	Option 2	Option 3
Annual fixed cost	\$ 2500	\$ 4500	\$ 27000
Variable cost per thousand pounds	\$100	\$ 80	\$ 20

Questions:

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- a) Based on annual cost, determine the annual volume (in thousands of pounds) at which the company would be indifferent between Option 1 and Option 2: between Option 2 and Option 3: and between Option 1 and Option 3
- b) Create a table showing the total annual cost of each option if annual volume (in thousands of pounds) is 50, 200, 350, and 500. Circle the lowest cost at each annual volume.
- c) Based only on the annual cost, for what range of annual volumes would each option be preferred?

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strikeout whichever is not applicable

### ASSIGNMENT ANSWERSHEET

Roll.No.	<input type="text" value="*PGMM /PGSM/20 / /"/>	Course	<input type="text"/>
Name	<input type="text"/>		

Assignments for	<input type="text" value="_____semester( 1,2,3)"/>	Semester (Month of Exam)	<input type="text" value="Dec 2025"/>
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Paper No.	<input type="text"/>	Subject:	<input type="text"/>
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For office use only :

Marks Allotted \_\_\_\_\_

(Maximum marks 30 Minimum Marks 15)

Name of Evaluator

Signature of Evaluator

**Note:**

1.This cover page must be attached to each assignment answer sheet

2.Each page of assignment must bear the roll number, name and sign of the student, without which assignments will be rejected

Signature of student

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Name

[illegible]

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