



INDIAN INSTITUTE OF MATERIALS MANAGEMENT

NHQ- Education Wing

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

Phone: 022-27571022 Telefax: 022-27565741

(PGDMM - 2 years course)

Assignments for July-December 2024 Session

(course code CMM/ PMM)

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 2024**

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 **31st October 2024** by email in PDF format to **iimmassignments@gmail.com**. It must not be shared through Google drive. If the file size is big send separate mails.

Note: Assignments must reach IIMM NHQ Education Wing by 31st October, 2024 by email in PDF format to

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PGDMM - 2 years

(Semester 3)

Assignments for July-December 2024 Session

(course code CMM/ PMM)

PAPER - 11

Purchase Management

TOTAL MARKS 30

Question No.1

Marks 15

Chitale Bandhu, is a very famous name in Pune for sweets, milk products, namkin and snacks. It was started in 1939 by its founder Bhaskar Chitale. Chitale Bandhu is known for its quality products. Currently they are operating in 6 cities in Maharashtra, its headquarter is at Pune. They would like to expand business all over India. You are required to advise them on the following:

Questions :

- Q 1. A) What is suitable centralization or decentralization of Purchase Department? Why?
B) What Purchasing Strategies you will recommend ?
c) What will be role of Purchase Department in improving quality of products?

(Read Chapter No 1, 4 and 5)

Question No.2

Marks 15

- A) How you will determine Right Price of Material?
B) How you will reduce purchasing cost ?
C) Prepare an annual contract for purchase of 100 mt Soda Ash per annum. Price Rs 30 per kg Plus Taxes, Transportation for delivery at New Delhi. Make necessary assumptions.

(Refer Chapter No 7, 8 and 9)

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PGDMM - 2 years

(Semester 3)

**Assignments for July-December 2024 Session
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PAPER - 12

Inventory Management

TOTAL MARKS 30

Question No.1

Marks 15

- a) Explain principles of Inventory Forecasting?
- b) Explain Inventory carrying costs?
- c) Inventory control using JIT?

(Read chapter 3, 10, 6)

Question No.2

Marks 15

Grooveline is a T-shirt manufacturing organisation based in Indonesia that supplies T-shirts based on customers' orders in terms of design, colour, printed images, fabrics and size. The organisation's aim is to fulfil customers' orders on time. However, this objective is inhibited by organisation's inability to make a production plan to meet the customers' demand in the right quantity and at the right time. This case study analyses whether MRP can be suitable to design an effective purchasing order.

The organisation has MRP method in use, Data Analysis, Master Production Schedule(MPS), Bill Of Materials (BOM), Lead Time, Time-Phased Product Structure, Gross Material Requirement Plan, Cost Comparison Systems In Place.

QUESTIONS:

1. Why did the organisation want to implement the MRP method? What benefits did it expect by applying it in production process?
2. Define MPS. What was the demand for the product in September in 2014?
3. What is BOM? How does it differ for the processing of different products? What do the different levels of BOM indicates?
4. What is time-phased product structure? Why is it important?
5. If the organisation had implemented MRP, then in which month of 2014 would it have saved the maximum cost?

(Read chapter 4)

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PAPER - 13

Supply Chain Management

TOTAL MARKS 30

Question No.1

Marks 15

Supply Chain deals with each and every decision that is made by an organization in the delivery of goods and services to the respective customers. Supply chain capabilities are influenced by the drivers of supply chain. There are two broad approaches to structuring a supply chain – Lean SCM and Agile SCM.

In the context of the above, answer the following questions.

- Explain briefly the various levels of Supply Chain Management (SCM).
- What do you understand by “Supply Chain Drivers”? explain with a neat diagram, the different types of supply chain drivers and the role played by them in developing supply chain capabilities.
- Explain the principles of Lean SCM.

(Read Chapters 2 to 5)

Question No.2

Marks 15

Truck Manufacturing Company (TMC) is a medium sized specialised Light Commercial truck body manufacturer located in South India. TMC has an annual turnover of more than Rs. 500 cr. These trucks are well received in the market. TMC has about 30 vendors located within a radius of 200 km. the remaining vendors (5 more) are spread across the country. The following features are applicable for TMC

- Manufactures 20% of its final product, components and sub-assemblies to stock
- Builds most final assemblies of major items to order. The competitive strength of TMC lies in its ability to produce high quality final products with engineering modifications to customer's specification. TMC has software by which design changes are incorporated into production plan
- Has approximately 500 shop employees, 15 departments, and 10 distributors where final mounting truck bodies on chassis has sometimes been performed
- Annually sells 25-50% of its product to the export market (in Nepal, Bhutan, and Sri Lanka etc.)
- Experiences problems with delayed delivery from chassis manufacturer when truck bodies are mounted on the chassis at the plant. Often the delivery time is the contentious issue
- Has wandering bottlenecks in the plant and in engineering as the mix of orders and order processing shifts. Sometimes customers (especially institutional) also keep changing their requirements. These are difficult to handle at the last minute

Concerns:

- Information
- Distribution
- Performance Measurement

Questions:

- Highlight on the complexity of managing SCM function for TMC
- Suggest architecture for the Management Information System. Your architecture must include information flow., material flow, and money flow between various entities
- Prepare a list of databases required and also specify fields required under each database

(Read Chapters 9 to 11).

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(Semester 3)

Assignments for July-Dec 2024 Session (course code CMM/ PMM)

PAPER - 14 Logistics & Warehousing Management

TOTAL MARKS 30

(Students should go through the chapter 1, 4 and 5 before answering the questions below)

Question 1

[15 Marks]

M/s Storewell Solutions were running a small warehouse for the use of a customer. This venture was successful and they had ideas of expanding their operations not only in warehousing but to provide complete logistics solutions to its customers. In order to establish such an enterprise, it was essential they understood all the components of logistics and its role in supply chain management. Transportation being one of the cost components in logistics, M/s Storewell Solutions understood the need for containers in order to improve the efficiency and economics in transportation. Being close to a Container Freight Station was a definite advantage with the use of containers.

- a) Help M/s Storewell solutions to identify all the components of logistics and their activities carried out by these components with a block diagram
- b) What kind of benefits did M/s Storewell Solutions envisage by the use of containers in transportation?
- c) What kind of benefits did M/s Storewell Solutions envisage with the nearness of the CFS?

(Students should go through the chapter 7, 11 and 12 before answering the questions below)

Question 2

[15 Marks]

Though M/s Storewell Solutions have been in the warehousing business, they wanted to upgrade and improve the efficiency of warehousing operations. They considered both the options of having a centralized warehouse or a distributed setup and carried out an exercise to identify the strengths and weakness of this arrangement and the factors to be considered in finalizing the strategy for the warehouse location and the number of warehouses required as they will require additional warehouse space for the expansion of their operations. The present warehouse has no scope for expansion. A new warehouse needs to be created. During the design phase of the warehouse all the safety features have to be taken care to prevent the occurrence of accidents. An all-round approach to setup a proper logistics company will provide them with an edge in operations.

- a) What are the factors that have to be analyzed while deciding on the location of the warehouse?
- b) What are the steps in the risk assessment has to be carried out in order to prevent the occurrence of accidents in the warehouse by M/s Storewell Solutions Inc.?
- c) What is the outcome of the study comparing the centralized and the distributed warehouse models?

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PGDMM - 2years

(Semester 3)

Assignments for July-December 2024 Session
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PAPER - 15

World Class Manufacturing

TOTAL MARKS 30

Question.1

[15 Marks]

A company having Indian operations wanted to become a Global Player by implementing WCM practices

1. Concept of World class Manufacturing (WCM) and explain the importance of various pillars of WCM
2. Describe the emergence of Information age and business characteristics of information age and industrial age
3. Explain Ohno's view on WCM and ten precepts related to quality improvement

(Read Chapter 1 to 6)

Question 2

[15 Marks]

Case study

Hella is world's leading automotive component supplier. The world class team had historically used state of art lean methodologies and advanced technology to optimise their production.

Company tied up with a consulting company, who developed advanced methodology using AI (artificial Intelligence). Hella decided to take help from this consulting company. After interacting with the consulting firm they discovered an opportunity to take advantage of an evolutionary step in their lean manufacturing practices with AI powered system.

The objective of the team was to identify standardized work deviations and areas for productivity improvement.

The challenge is to discover hidden opportunities for optimization. Hella conducted a joint activity and found that the non value added activities in the process

After identification of MUDA, MURI, MURA in the process and they completed all the corrective action in a span of 10 weeks. Hella's continuous Improvement Team (CIT) used AI powered videos to record cycle time for each work station and implemented kaizen

Improvements activities like kaizen event, line balancing and cycle time reduction initiation resulted in 7% decrease in cycle time, 5% increase in Productivity and 4% increase in OEE(Overall Equipment Efficiency)

1. What was objective of the improvement program
2. What are the major initiatives taken by the company
3. Elaborate on the usage of AI in manufacturing
4. Explain MUDA, MURA and MURI

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(Semester 4)

Assignments for July-December 2024 Session

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PAPER - 16

Entrepreneurship

TOTAL MARKS 30

Question.1

[15 Marks]

Entrepreneurs are the backbone of any economy. It is the responsibility of every nation to ensure economic development to improve standard of living of the people and eliminate poverty by generating employment opportunities

1. a) Explain 5 steps of an entrepreneurial process and explain each step
b) Explain financial feasibility study
2. a) Describe Internal and external motivating factors for an entrepreneur
b) Explain different forms of business ownership and elaborate how to select an appropriate business form

Read Chapter 1 to 7

Question 2

[15 Marks]

Case study

CRAB_ a creative Network solution company , formed by three young entrepreneurs in the year 2020. They started with the cutting edge of user experience in Branding, Web design and Digital Marketing. Mr. Anirudh, a graduate Mechanical engineer (worked as a business analyst for more than a decade) is the CEO of the company He takes a unique approach to innovation and business ideas.

He saw an interesting opportunity in applying the teams knowledge and expertise in developing various needs of the customer. These insights slowly worked their way to business plans and ultimately into an operating business.

It was not the idea, inspiration or even the technology that defined the business. It was the team spirit starting with general idea of where they wanted to go, they built a team and the let the team find its own way. They wanted to focus on building the best team which can pivot and create new value when confronted with obstacles. Since a low amount of capital available with them to build up start ups they tapped into their network. Starting with available resources in the initial months and with revenue they brought in, they began to refine their processes and ideas over a period of time.

Over a period of three years, strength of company has increased to 25 and sales turn over started improving. But cash inflows were affected as the customers started delaying their payment, putting the company into financial difficulties.

They approached the bank for getting OD limits sanctioned, which was rejected by bank saying that you have not finished two years of operation. Angel investment and crowd funding agencies are not ready to invest in service industry.

QUESTIONS

1. What are the qualities required for a entrepreneur
2. what are the strength of the company
3. How they managed the funding in the initial stages
4. what are the suggestions to improve the company's financial position
5. General funding options available in the market.

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PAPER - 17

Research Methodology

TOTAL MARKS 30

Question.1

[15 Marks]

A research design is needed because it enables the smooth functioning of various research operations. Sampling design is a component of research design and it decides the population to be studied and also deals with the method of selecting samples for research. Sampling is the process of choosing a subset of subject matter from the whole population for the purpose of conducting research. Measurement and scaling are essential parts of a research study. In this context answer the following questions:

- Discuss the various components that constitute a research design and explain the important concepts related to research design.
- Explain with a neat diagram the various steps involved in the sampling design process. What are the characteristics of a good sampling design?
- Discuss the various types of measurement scales used in research study.

(Read chapters 3,4, and 5).

Question 2

[15 Marks]

A municipal corporation wishes to improve the liking of its residents towards the locality. Research is conducted in which the liking is measured on 11-point scale (1 – do not like the city, 11-very much like the city), and the period of residence is measured in terms of the number of years the respondents have lived in the city. In the pre-test of 12 respondents, the data, as shown in the table, are obtained.

Respondent	Liking towards the city	Duration of residence
1	6	10
2	9	12
3	8	12
4	3	4
5	10	12
6	4	6
7	5	8
8	2	2
9	11	18
10	9	9
11	10	17
12	2	2

Determine with help of correlation if the municipal corporation should design new strategies to improve the liking of residents towards the locality.

- What do you understand by the term “Parametric Tests”? briefly discuss the different types of parametric tests.
- What are “Non-parametric Tests”? explain briefly about the different types of non-parametric tests.

(Read chapters 8 to 11).

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PAPER - 18 Public Procurement

TOTAL MARKS 30

Question.1

[15 Marks]

- In Public Procurement, why we need Two Stage Bidding ?.
- Explain the process of Evaluating the bids in Two stage Bidding ?
- Explain the difference between RFQ & RFP ?

(Read Chapter 3)

Question 2

[15 Marks]

Doing project of the World Bank was launched in the year 2002 for checking small & medium sized domestic organisations & measuring regulations that are applicable on them. To compare the regulations across the economies, doing business collects comprehensive data. The project helps the economies in the following manner.

- To make efficient rules & regulations for competing
- To offer standards for change
- To serve as a resource of academics, journalists, researchers etc.

In the era of globalisations & highly digital world, training & communication benefits the international trade professionals in his digital trading environment. In the recent years, doing business has noticed & captured the changes which shows the important roles that are paid by the level of education, training & communication among the parties for improving the trade. The two important parties that play a very important role in the international trade transaction are the customs clearance officials & custom brokers. The officials of the customs office & brokers have different but linked roles with regards to education, training & communication.

The officers in the custom clearance house are the employees of the customs administration who are responsible for the enforcement of the laws where as the customs brokers are the third party which is a private organisation or entity that deals with the officers of the customs on behalf of the exporter or importer. The information technology developments, communications & training of these parties are critical. The data of doing business project high lights that education & training of the officers play a significant role in the enforcement & successful implementation of the trade relate reforms & laws. With education, the brokers & officials are able to bring efficiency in the international trade process.

According to the finding of the doing business project of the world bank

- Those nations or economics which have implemented the trade reforms, 85 % of those economies give training to customs clearance officials
- The custom clearance officials & custom brokers training is positively linked with lower border & documentary compliance times.
- The average time to clear customs is 34 % lower in those economies that provide training to the officers in comparison to these economies that do not provide training.
- The workshops are organised to convey changes in trade practice or laws & regulations to officers of the customs houses & customs brokers.
- The brokers need a license in 75% of economies to perform trade.

QUESTIONS

- Who launched doing business project & when ?
- What was the reason behind launching the Doing Business Project ?
- Why is it important to train & educate officials & brokers ?

(Refer chapter 7)

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PAPER - 19

Emerging Trends in Materials Management

TOTAL MARKS 30

Question.1

[15 Marks]

(Students should go through the chapter 1, 4 and 5 before answering the questions below)

- 1.1 a) Explain the concept of business Process outsourcing (BPO)
b) Explain the meaning and characteristics of BPO
- 1.2. a) Explain the merits and de merits of Digital economy
b) Elucidate digitisation of Global economy

Question 2

[15 Marks]

(Students should go through the chapter 2 & 3 before answering the questions below)

Case study:

A chennai based precision Instruments manufacturing company XYZ having factors at multiple locations and having high reputation due to their quality of products. Company wanted to implement ERP system to take care Material Requirement Planning (MRP), Production Planning , Sales and marketing, Materials and FICO. After analysing various options available they decided to implement a reputed ERP package. Generally an ERP implementation takes around one year to implement and fo on live. XYZ decided to take help of a consulting firm to implement ERP. Company could complete and go on live with in 6 months time with the help of consulting firm. Company did customisation as per the company's requirement to bare minimum to ensure original features of ERP package is maintained (generally company's tried to customise and incorporate the features of legacy system)

After few months company evaluated the performance of the implementation and found that frequent production stoppages and higher inventory levels of certain items. In certain cases the purchase requisition (PR) is not getting generated. Company decided to form a internal team to study and propose solutions for the issue. After in depth study and brain storming, they found that mandatory fields in material Master in the ERP package was missing. The team decided to down the load the Material Master details into a XL file . The entire Material Master and BOM studied the defects and uploaded the corrected data. During the MRP run , they found that revised input data gave better results in terms of PR generation and reduced the material shortage. After improving the system, they allowed the businesses partners (Suppliers, Customers)connectivity (B2B) so that the supply chain become very effective

- a) Describe the problem faced by the company
- b) How company addressed the issue
- c) What are the suggestions emerged from the team's findings
- d)Describe B2B and advantages of B2B implementation

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strikeout whichever is not applicable

ASSIGNMENT ANSWERSHEET

Roll.No. Course

Name

Assignments for Semester (Month of Exam)

Paper No. Subject:

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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ASSIGNMENT ANSWERSHEET

Roll.No. *CMM /PMM//20 / /

Course

Name

Dotted lines for writing answers

Signature of student

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