

Plot No. 2, Knowledge Park-III, Greater Noida (U.P.) –201306

**POST GRADUATE DIPLOMA IN MANAGEMENT (2023-25)
END TERM EXAMINATION (TERM-IV)**

Subject Name: **Material and Purchase Management**

Time: **02.00 hrs**

Sub. Code: **PGO41**

Max Marks: **40**

Note:

All questions are compulsory. Section A carries 5 marks: 5 questions of 1 marks each, Section B carries 21 marks having 3 questions (with internal choice question in each) of 7 marks each and Section C carries 14 marks one Case Study having 2 questions of 7 marks each.

<u>SECTION - A</u>		
Attempt all questions. All questions are compulsory.		1×5 = 5 Marks
Questions	CO	Bloom's Level
Q. 1: (A). Illustrate Integrated Materials Management.	CO1	L1
Q. 1: (B). Define the term MRP.		
Q. 1: (C). Describe the functionality of Purchase Management.		
Q. 1: (D). Define Inventory carrying cost.		
Q. 1: (E). Quote “codification of materials”. (Entire Sec A to be assigned one CO.)		
<u>SECTION – B</u>		
All questions are compulsory (Each question have an internal choice. Attempt any one (either A or B) from the internal choice)		7 x 3 = 21
Questions	CO	Bloom's Level
Q. 2: (A). What are the different methods of Sales forecasting? Simulate a practical scenario to explain sales forecasting requirement for better inventory control. Or Q. 2: (B). Discuss how effective inventory management can influence a company's overall performance. What strategies can be implemented to optimize inventory levels? (internal choices with two questions corresponding to the same CO)	CO2	L2, L3
Q. 3: (A). Analyze the role of technology in materials management. How have advancements in data analytics and automation transformed the way organizations manage their materials? Or		

<p>Q. 3: (B). Evaluate the importance of maintaining strong relationships with suppliers. What factors should companies consider when selecting and managing their suppliers?</p> <p>(internal choices with two questions corresponding to the same CO)</p> <p>Q. 4: (A). Explore the significance of sustainable practices in materials management. How can organizations integrate sustainability into their supply chain processes?</p> <p style="text-align: center;">Or</p> <p>Q. 4: (B). Discuss the various risks associated with materials management. What measures can organizations take to mitigate these risks effectively?</p> <p>(internal choices with two questions corresponding to the same CO)</p>	CO3	L4, L5
<p><u>SECTION - C</u></p> <p>Read the case and answer the questions 7×02 = 14 Marks</p>		
Questions	CO	Bloom's Level
<p>Q. 5: Case Study:</p> <p>ABC Build Construction is a mid-sized construction firm based in India, specializing in sustainable building projects. Over the last five years, the company has faced challenges in managing its materials, leading to project delays, increased costs, and wastage. To address these issues, ABC Build decided to implement a new material management system aimed at improving efficiency and reducing waste.</p> <p>In early 2023, ABC Build engaged a consultancy firm to evaluate its current material management processes. The assessment revealed several inefficiencies, including poor inventory tracking, lack of standardized procedures, and inadequate supplier management. As a result, ABC Build launched a comprehensive overhaul of its material management practices. The company adopted a digital inventory management system that provided real-time tracking of materials. This system allowed project managers to monitor stock levels, forecast material needs, and automate reordering processes. Additionally, ABC Build established standardized procedures for material handling, including guidelines for receiving, storing, and distributing materials on-site. To enhance supplier relationships, ABC Build implemented a supplier evaluation program. This program included criteria such as delivery reliability, quality of materials, and cost-effectiveness. By fostering strong partnerships with reliable suppliers, ABC Build aimed to ensure timely delivery and reduce the risk of project delays.</p>	CO4	L5,L6

<p>By the end of 2023, ABC Build Construction reported significant improvements in its material management. The digital inventory system reduced material wastage by 30%, as excess orders and shortages were minimized. The standardized procedures streamlined operations, resulting in a 20% decrease in project completion times.</p> <p>Furthermore, the supplier evaluation program led to better negotiation terms and improved material quality. ABC Build was able to cut its material costs by 15%, contributing to higher profit margins on projects.</p> <p>Overall, the new material management system not only enhanced operational efficiency but also positioned ABC Build as a leader in sustainable construction practices. The company received positive feedback from clients and stakeholders for its commitment to reducing waste and optimizing resource use.</p> <p style="text-align: center;">The case of ABC Build Construction demonstrates the critical role of effective material management in the construction industry. By leveraging technology and establishing strong supplier relationships, the company was able to overcome its challenges and achieve substantial improvements in efficiency and cost-effectiveness.</p> <p>Questions: Q. 5: (A). Create a strategic plan for the construction of firms implementing to further enhance material management beyond those employed by ABC Build Construction? Q. 5: (B). Develop how can technology integration in material management impact overall project sustainability in the construction industry?</p>	
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Kindly fill the total marks allocated to each CO's in the table below:

COs	Bloom's Level	Marks Allocated
CO1		5 Marks
CO2		7 Marks
CO3		14 Marks
CO4		14 Marks

(Please ensure the conformity of the CO wise marks allocation as per your TLEP.)

Blooms Taxonomy Levels given below for your ready reference:

- L1= Remembering**
- L2= Understanding**
- L3= Apply**
- L4= Analyze**
- L5= Evaluate**
- L6= Create**