

MAY 2015

**P/ID 77511/PMBL/
PMB1L/PMBSN**

Time : Three hours

Maximum : 100 marks

PART A — (5 × 6 = 30 marks)

Answer any FIVE questions.

1. What is ergonomics? Explain.
2. Write a note on economies of scale.
3. What is safety stock? Explain.
4. Write a note on Pareto rule.
5. What are the prerequisites for an effective inventory management?
6. Write a note on acceptance sampling.
7. Bring out the developments in allowance factors.
8. Write a note on vendor rating.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

9. Explain the main functions involved in production planning and control.
10. What material handling devices are available for overhead handling of heavy materials in a production bay?

11. Discuss the various plant layout options for a manufacturing company.
12. Write in detail on the developments in the quality control in India.
13. A product is manufactured by four factories A, B, C, and D. The unit production costs of them are Rs 2, Rs 3, Rs 1 and Rs 5 respectively. Their production capacities are 50,70,30 and 50 units respectively. These factories supply product to four stores, demands of which are 25,35,105 and 20 units respectively. Unit transportation cost in Rs. from each factory to each store is given in the table below.

		Stores →			
		1	2	3	4
Factories ↓	A	2	4	6	11
	B	10	8	7	5
	C	13	3	9	12
	D	4	6	8	3

Determine the extent of deliveries from each of the factories to each of the stores so that the total production and transportation cost is minimum.

14. Explain the role played by ABC analysis in production management.

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15. What is dynamic purchasing? Explain the concept of value analysis.
16. Trace the functions of a Production manager in the changing technology era.

PART C — (1 × 20 = 20 marks)

Compulsory

17. (a) “Internet technology and Electronic commerce has brought the manufacturers and the customers very close to each other. This should result into better customer relationship management and supply chain management”. What is the relevance for the production manager?
 - (b) Explain the functions of a production manager in the light of zero inventory to be kept at organisations.
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