MAY 2013

P/ID 77511/PMBL/ PMB1L

Time : Three hours Maximum : 100 marks

PART A — (5 × 6 = 30 marks)

Answer any FIVE questions.

All questions carry equal marks.

1. Discuss the characteristics of modern manufacturing.
2. Distinguish between functional design and form design.
3. Describe the role of technology in production management.
4. Define the terms 'production capacity' and 'capacity planning'.
5. What is 'micromotion study'?
6. What is meant by facility loading or machine loading?
7. Describe the guidelines for master scheduling.
8. What is a 'closed-loop MRP'? What are its uses?

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

9. What is meant by scheduling "customer-as-product" service operations? Explain.

10. Distinguish between PERT and CPM and state where they are used.

11. What is quality control? What are its objectives and benefits?

12. Outline various types of maintenance. Describe the procedure for preventive maintenance program.

13. Define material management. Bring out its scope and importance.

14. Mention the guidelines to be used for effective and reliable materials planning.

15. What are the principles and responsibilities for good vendor-vendee relationship? Explain.

16. What do you mean by classification and codification? What are the benefits?

PART C — (1 × 20 = 20 marks)

Compulsory

Case study

17. Design an effective plant layout for an aircraft manufacturing industry. Explain the various factors you have considered for designing that plant layout.

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