

MAY 2011

P/ID 37511/PBAL

Time : Three hours

Maximum : 80 marks

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

All questions carry equal marks.

1. What are the uses of cross-over chart?
2. What are factors involved in multiplant location decision?
3. What are the different types of layout? Explain briefly.
4. What is the necessity of safety stock?
5. What are the advantages of batch production?
6. What are the advantages of break-down maintenance?
7. What are the importance of control charts?
8. What is the purpose of stop-watch study?

PART B — (4 × 10 = 40 marks)

Answer any FOUR questions.

All questions carry equal marks.

9. What are the steps in process planning? Explain briefly.
10. Discuss the advantages and disadvantages of product, process and cellular layout.
11. What is material handling? Explain its principles, also explain various material handling equipments.
12. How does production planning and control steps undergo changes in case of mass production through automation? Discuss elaborately.
13. Discuss the steps of \bar{X} and R charts with an example.
14. What is Vendor selection? Explain the various methods of Vendor selection.

PART C — (1 × 15 = 15 marks)

Compulsory

15. A manufacturer wants to make an item which is at present being purchased from the market at Rs. 5. There are two options available with the manufacturer.

Both options are given below :

	Option A	Option B
Variable cost	Rs. 3	Rs. 2
Fixed cost	Rs. 1,00,000	Rs. 2,00,000

Derive the decision rule on make or buy.
