

OCTOBER 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 objectives of capacity planning?
2. What is technology factor? Explain briefly.
3. What are the principles of good layout?
4. What are the characteristics of job design?
5. What are the advantages of intermittent production?
6. What are the advantages of preventive maintenance?
7. Why is inspection important for quality control?
8. What is the purpose of time study?

PART B — (4 × 10 = 40 marks)

Answer any FOUR questions.

All questions carry equal marks.

9. Write notes on strategic consideration in make (or) buy decisions.
10. What are the various factors that are to be taken into account for plant location?
11. Discuss the various methods of scheduling and loading used in product – layout.
12. Explain the stock control procedure in detail.
13. What is cost balance? Explain its importance.
14. Write an essay on Value analysis stating the different approaches, techniques and methods used.

PART C — (1 × 15 = 15 marks)

(Compulsory)

15. A company manufactures Iron box. The MPS of the final assembly is as shown below.

Months	Projected requirements in (unit)
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1	—
2	3500

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Months	Projected requirements in (unit)
3	3000
4	4500
5	2500
6	1000
7	4000
8	5500

The initial stock in hand is 1150. The carrying cost is Rs. 5 per unit/month. The setup cost per setup is Rs. 4000. Develop a EOQ solution and calculate total relevant cost.
