

MAY 2013

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. Explain the vendor rating procedure.
2. Explain the term Value Engineering?
3. What are the objectives of time and motion studies?
4. Outline the procedures required to construct X and R control charts.
5. Write a note on TQM.
6. What are the functions of purchasing organisation?
7. What are the allowance factors incorporated in method analysis?
8. What are the objectives of warehousing management?

PART B — (4 × 10 = 40 marks)

Answer any FOUR questions.

All questions carry equal marks.

9. Describe the selective inventory control techniques.
10. What are the alternative sources of capacity? How do they impact the capacity planning problem?
11. What factors you would consider in locating a nuclear power plant?
12. Explain the principles of materials handling. Briefly describe the various materials handling equipments.
13. Describe the structures advantages and disadvantages of sequential sampling plans.
14. Discuss the various types of production involved in a manufacturing organisations.

PART C — (1 × 15 = 15 marks)

Compulsory

15. An item has yearly demand of 2000 units. The different costs in respect of make and buy options are given below. Determine the best option.

	Buy Option	Make option
Item cost per unit	Rs. 8	Rs. 5
Procurement cost per order	Rs. 120	–
Annual Carrying cost/unit/year	Rs. 1.60	Re. 1
Set upcost	–	Rs. 60
Production rate/year	–	8000 units