

UNIT – IV

8. What is an inventory system ? Explain clearly the different costs that are involved in Inventory problems with suitable examples.
9. Explain the following :
- (i) Responsibility budgeting.
 - (ii) Explain the scope of marketing management.
 - (iii) Explain the different techniques of cost control.
 - (iv) What is various mechanisms and advantages of ABC analysis ?
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Roll No.

24722

B. Tech. 7th Semester (Automobile Engg.)

Examination – December, 2016

**OPERATIONS RESEARCH AND INDUSTRIAL
MANAGEMENT**

Paper : AUE-405-F

Time : Three Hours]

[Maximum Marks : 100

Before answering the question, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Section - A is *compulsory*. Attempt total *five* questions. Selecting at least *one* question from each Unit. All questions carry equal marks.

SECTION – A

1. Attempt all the 10 questions :

- (a) Define the concept or Analog models of operation research.
- (b) What do you mean by optimum solution of problem ?
- (c) Explain the concept of Project Management.

- (d) Describe the concept of linear programming.
- (e) What do you understand by Markov Process ?
- (f) What do you mean by industrial legislation ?
- (g) Define the concept of incentive.
- (h) What do you mean by Cost Accounting ?
- (i) Define the concepts of EOQ.
- (j) Explain the concept of training.

SECTION - B

UNIT - I

Note: Attempt any *five* questions. All questions carry equal marks.

- 2. What do you mean by Operations Research ? Explain the role of Operations Research in Decision Making in current scenario ? Discuss the limitation of Operation Research.
- 3. Two products A and B are processed on three machines X, Y & Z. The processing time per unit, machine availability & profit per unit are as under

Machine	Processing Time (Hours) X product	Processing Time (Hours) Y product	Availability (Hours)
X	2	3	1500
Y	3	2	1500
Z	1	1	1000
Profit per unit	Rs. 10	Rs. 12	

UNIT - II

- 4. Point out the difference between CPM and PERT. Explain how "slack is calculated in PERT approach ?
- 5. Explain the following :
 - (i) Explain the meaning of simulation and state its usefulness in industrial decision making.
 - (ii) For what type of industrial problems might decision theory be helpful ? Explain.
 - (iii) Essentials features of Game theory.

UNIT - III

- 6. What do you Personnel Management and explain its importance in industrial environment ?
- 7. Explain the following :
 - (i) What do you mean by training and explain the difference between Training and Development ?
 - (ii) Difference between financial and non financial incentive.