



**BIJU PATNAIK INSTITUTE OF INFORMATION TECHNOLOGY
& MANAGEMENT STUDIES, BHUBANESWAR**

Semester : 4th Sem. MBA
Batch : 2023-25
Subject : Management of Manufacturing System
Subject Code : 18MBA401D

Date : 16.04.2025
Class Test : II
Duration : 1 Hr.
Full Marks : 30

Section- A

1. Answer any four out of following questions. [4 x 2 = 8]
- a) Find the major applications of e-Kanban system. [CO1]
 - b) How cell are formed in cellular manufacturing System. [CO2]
 - c) Define POLCA with suitable example. [CO2]
 - d) What do you mean by Theory Of Constraints.(TOC) [CO1]
 - e) List the two reasons why Gantt chart is used? [CO2]

Section-B

2. Answer any two questions out of following [2 x 6= 12]
- a) Illustrate the function and objectives of Drum Buffer Methodology. [CO3]
 - b) Identify Impact of Theory of Constraint (TOC) in Manufacturing Environment. [CO2]
 - c) Outline the different Scheduling Priority Rules with example. [CO2]

Section-C

3. Answer any one out of following questions. [1 x 10= 10]
- a) Discuss Flexible manufacturing system and explain the conceptual model of FMS of Steel Production along with applications. [CO3]
 - b) Analyse Kanban System in Retail Company and differentiate between Pull & Push Kanban System. [CO3]

All the Best



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**Semester : 4th Sem. MBA
Batch : 2023-25
Subject : Sourcing Management
Subject Code : 18MBA402D**

**Date : 15.04.2025
Class Test : II
Duration : 1 Hr.
Full Marks : 30**

Section- A

1. Answer any four out of following questions. [4 x 2 = 8]
- a) Explain the concept of Green Sourcing? Give an example. [CO3]
 - b) Analyse the importance of vendor rating in sourcing management? [CO3]
 - c) What is meant by supplier score card? [CO3]
 - d) What is EOQ? [CO4]
 - e) Explain the term ESPD and SLA in tendering. [CO4]

Section-B

2. Answer any two questions out of following [2 x 6= 12]
- a) Briefly explain the concept of E-Sourcing. [CO4]
 - b) Discuss the advantages and disadvantages of foreign exchange currency in brief. [CO4]
 - c) What do you mean by Learning Curve? Explain its uses and limitations. [CO4]
 - d) Explain the steps involved supplier evaluation and selection process. [CO3]

Section-C

3. Answer any one out of following questions. [1 x 10= 10]
- a. Explain analytical tools for sourcing and explain the advantages of analytical tools used in sourcing? [CO4]
 - b. What is solicitation of bid or proposal? Explain the types of solicitation. Mentions the various methods of solicitation. [CO4]

All the Best



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**Semester : 4th Sem. MBA
Batch : 2023-25
Subject : Operations Research Applications
Subject Code : 18MBA403D**

**Date : 17.04.2025
Class Test : II
Duration : 1 Hr.
Full Marks : 30**

Section- A

1. Answer any four out of following questions. [4 x 2 = 8]
- a) What do you mean by portfolio optimization ? [CO1]
 - b) Define the term jockeying in queuing theory. [CO1]
 - c) State the basic difference between NLPP and LPP? [CO1]
 - d) What is bin packing problem? [CO1]
 - e) Define the term “state” in dynamic programming problem? [CO1]

Section-B

2. Answer any two questions out of following [2 x 6= 12]
- a) Give five applications of Dynamic programming problem. [CO2]
 - b) Explain Kendall’s notation. [CO2]
 - c) Discuss vehicle routing problem. [CO2]

Section-C

3. Answer any one out of following questions. [1 x 10= 10]
- a) Write down the steps involved in Gomary’s cutting plane algorithm in IPP. [CO3]
 - b) A TV repairman finds that the time spent on his jobs has an exponential distribution with mean 30 minutes. If the arrival of sets is approximately with an average rate of 10 per 8-hour day, what is the repairman’s expected idle time each day? How many jobs are ahead of the average set just brought in? [CO3]

All the Best