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Total Number of Pages:

Course: MBA
Sub_Code: 18MBA401D

4th Semester Regular / Back Examination, 2023
SUBJECT : MANAGEMENT OF MANUFACTURING SYSTEM
BRANCH(S): MBA, RM, BA, GM

Time: 3 Hour

Max Marks : 100

Q.Code: M558

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions:

(2 x 10)

- a) Outline the basic concept of Kanban system.
- b) What do you understand by Assembly line?
- c) Differentiate between pull and push concept of Kanban.
- d) Outline the benefits of flexible manufacturing system.
- e) What is production flow analysis?
- f) State the advantages of JIT production system.
- g) What purpose Gantt chart solves?
- h) What do you understand by machine loading?
- i) Differentiate between production and manufacturing.
- j) What is understood by machine loading?

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)

- a) Discuss the factors which affect the productivity of a manufacturing system.
- b) Elucidate the DBR Methodology.
- c) State the qualitative analysis in cellular manufacturing.
- d) Discuss the requirements of good manufacturing and assembly lines.
- e) What is the role of demand management in Assemble- to -order environment?
- f) Explain the process mapping in work environment.
- g) Outline the framework of Flexible Manufacturing System.
- h) Enumerate the constraints in manufacturing system.
- i) What do you mean by inter- cell movement? How can it be minimized?
- j) Outline the constraints in manufacturing system.
- k) Briefly explain the concept of "control based on theory of constraints".
- l) Differentiate between process layout and product layout with examples.

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

- Q3** Explain the various steps involved in a production flow analysis (PFA). Also point out the advantages and disadvantages associated with it. FMS. (16)
- Q4** “An effective layout of plant not only optimizes the space utilization but reduces material handling cost “. Elaborate the statement explaining essential of good plant layout and factors which are needed to be considered while adopting a particular type of layout. (16)
- Q5** Enumerate the scope for FMS in the world of manufacturing today. State the types and composition. (16)
- Q6** Define process mapping. What are the generic building blocks of process mapping? With a flow chart explain process mapping in work environment. (16)