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Total Number of Pages: 02

Course: MBA
Sub_Code: 18MBA401D

4th Semester Regular/Back Examination: 2023-24
SUBJECT: Management of Manufacturing System
BRANCH(S): BA, FM, FM&HRM, GM, HRM, MBA, MM,
Time: 3 Hour
Max Marks: 100
Q.Code: P278

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) Differentiate between single card and two card Kanban system.
- b) What do you understand by machine loading?
- c) Why Gantt chart is used?
- d) Define standard time for an operation.
- e) State the advantages of cellular manufacturing.
- f) Define Drum- Buffer- Rope (DBR)...
- g) How process layout is different from product layout?
- h) What is production flow analysis?
- i) Define CONWIP.
- j) Differentiate between production and manufacturing.

Part-II

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

- a) Discuss the requirements for a good manufacturing and assembly line layout.
- b) What are the different types of layouts? How should an organisation decide on, which layout to choose?
- c) State the qualitative analysis in cellular manufacturing.
- d) Explain the basic principles of JIT, highlighting the elements of JIT.
- e) Explain the various tools and techniques used for layout planning and analysis.
- f) Briefly explain the concept of "control based on theory of constraints".
- g) Describe the conceptual framework of Flexible Manufacturing System.
- h) How can minimization of inter-cell movement be achieved in a cellular manufacturing system?
- i) Draw a comparison with Kanban system and CONWIP.
- j) Enumerate the constraints in manufacturing system.
- k) Discuss the objectives of plant layout.
- l) State the requirements for a smooth operation planning.

Part-III

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

- Q3** What is the scope for FMS in manufacturing today? State the types and composition of FMS. **(16)**
- Q4** State the basic principles in scheduling. Discuss the scheduling procedure and the factors affecting scheduling. **(16)**
- Q5** 'Production Planning and Control is the key to the success of a business organisation'. Discuss the statement listing the various functions carried out under production planning & control and their purpose in brief. **(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)**