

MF 5102- Computer Integrated Manufacturing Systems

Important 2mark questions

Unit-I

1. Define the terms zoom and pan?
2. Distinguish between reflection and scaling transformation?
3. What are the advantages of CAD?
4. How CAD contributes to product design?
5. Compare surface modelling and solid modelling?
6. What are the drawing features of CAD packing?
7. What are the advantages of solid modeling?
8. Define concurrent engineering?
9. What are the basic elements of an automated system?
10. What are part families?

Unit-II

1. What is the difference between automation and CIM?
2. What is simplex and duplex?
3. State with neat sketches, the importance of star, ring and bus networks?
4. List the seven layers of OSI model?
5. Define computer integrated manufacturing?
6. What are the various types of communication in CIM?
7. Define CIM?
8. Why is production planning essential for CIM?
9. Differentiate process planning and production planning?
10. Distinguish materials requirement planning and manufacturing resource planning?

Unit-III

1. What is the main difference between hierarchical and attribute code structure?
2. What do you meant by cellular manufacturing?
3. What are the symbols used in an automated flow line?
4. Explain composite part concept?
5. Define variant approach in CAPP?
6. What do you meant by the cellular manufacturing?
7. Explain composite part concept?
8. What is cellular manufacturing?
9. Mention the benefits of GT?
10. What is CAPP?

Unit-IV

1. List the different stages of shop floor control?
2. What are the various types of layouts used in FMS design?
3. State the benefits of FMS?
4. Define material handling systems?
5. What are the various types of layouts used in FMS design?
6. List out the advantages of Radio frequency identification?
7. State any four benefits of FMS?
8. List out the types of AGV's
9. State the function of computer control system of FMS?
10. What is direct digital control?

Unit-V

1. Define agile manufacturing?
2. What are the benefits of lean manufacturing?
3. What are the types of production monitoring systems?
4. State the difference between lean and agile manufacturing?
5. Draw the structure of an MRP system?
6. Mention the principles of lean production system?
7. Define pitch, yaw and roll?
8. What is accuracy and repeatability in industrial robots?
9. What are the inputs by MRP system?
10. Define integrate manufacturing system?