P-6676

SEAT No. :

[6181] 244

B.E. (Mechanical Engineering) COMPUTER INTEGRATED MANUFACTURING (2019 Pattern) (Semester - VIII) (402048)



[9]

b) Write a part Program for 10 mm drilling operation at four location on milling machine on a work piece shown in Figure 2b. [9]



- Q3) a) Describes the different approaches to Computer Aided Process Planning (CAPP). [9]
 - b) Explain in brief Capacity planning and Enterprise Resource Planning (ERP).

OR

Q4) a) Explain Logical steps in Computer Aided Process Planning (CAPP).
[8]
b) Describe the Manufacturing Resource Planning (MRP-II) with input, working, outputs and benefits.

- Q5) a) Explain any three Flexible Manufacturing Systems (FMS) based on layout with suitable sketches. [9]
 - b) Explain Optiz parts coding system with suitable example. [9]

[6181]-244

- Q6) a) Describe Rank order Clustering (ROC) algorithm with suitable example.
 - b) Explain cellular manufacturing and types of machine cell design with layouts. [9]

[9]

- Q7) a) Explain the classification of components of Industry 4.0. [9]
 - b) Explain Big-Data and Cloud Computing used for IoT along with its benefits and limitations.

OR

Q8) a) Explain the use of IoT for Smart Manufacturing, Predictive Maintenance and Supply-Chain & Logistics applications. [9]

b) Explain with an example, "How Digital Twin is implemented for Smart Manufacturing?" [8]