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PRESIDENCY UNIVERSITY BENGALURU

SCHOOL OF ENGINEERING MID TERM EXAMINATION - OCT 2023

Semester: Semester III - 2022 Date: 30-OCT-2023

Course Name: Sem III - MEC3034 - Computer Integrated Manufacturing Max Marks: 50

Program: MEC, MCM, MAM Weightage: 25%

Instructions:

(i) Read all questions carefully and answer accordingly.

- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.

ANSWER ALL THE QUESTIONS

(iv) Do not write any information on the question paper other than Roll Number.

PART A

1.	Define computer integrated manufacturing	
		(CO1) [Knowledge]
2.	What is Process planning?	(CO1) [Knowledge]
3.	List the three distinguished components of CIM	(OO 1) [Tallowloago]
		(CO1) [Knowledge]
4.	Write Generative CAPP Examples	(CO5) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS (2 X 10 = 20M)

6. Explain the Nature and Role of the Elements of CIM System

(CO1) [Comprehension]

(CO5) [Knowledge]

(5 X 2 = 10M)

7. Explain the Aproaches of CAPP in detail

5. Write process planning activity

(CO5) [Comprehension]

PART C

ANSWER THE FOLLOWING QUESTION

 $(1 \times 20 = 20M)$

- **8.** a) A production machine operates 90 hr/wk (two shifts,5 days) at full capacity. Its production rate is 30 units/hr. During a certain week, the machine produced 30000 parts and was idle the remaining time (Determine the production capacity of machine (b) What was the utilization of the machine during the week under consideration?
 - b) The furred lathe section has 6 machines, all devoted to the productions of the same part. The section operates 10shifts/wk. The no. of hours/shift averages 8.0 average production rate of each machine is 17 units/hr. determine the weekly production capacity of the turrets lathe section. Actual production is 8000 units/week. Findout the utilization of machine

(CO1,CO5) [Application]