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**PRESIDENCY UNIVERSITY
BENGALURU**

SET A

**SCHOOL OF ENGINEERING
END TERM EXAMINATION - JAN 2024**

Semester : Semester III - 2022

Course Code : MEC3034

Course Name : Computer Integrated Manufacturing

Program : B.Tech.

Date : 09-JAN-2024

Time : 9:30AM - 12:30 PM

Max Marks : 100

Weightage : 50%

Instructions:

(i) Read all questions carefully and answer accordingly.

(ii) Question paper consists of 3 parts.

(iii) Scientific and non-programmable calculator are permitted.

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

PART A

ANSWER ALL THE QUESTIONS

4 X 5M = 20M

1. List the CIM software functions

(CO1) [Knowledge]

2. Write any 5 difference between NC and CNC Machines

(CO2) [Knowledge]

3. With a neat sketch explain Friction slide ways

(CO3) [Knowledge]

4. Explain three functions of Adoptive Control

(CO4) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

5 X 10M = 50M

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

(CO1) [Comprehension]

6. Explain the working principle of Rotary transducer and Linear transducer

(CO2) [Comprehension]

7. write a note on work holding devices

(CO3) [Comprehension]

8. Explain the Classification of the adoptive control systems

(CO4) [Comprehension]

9. Explain the Approaches of CAPP in detail

(CO5) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS

2 X 15M = 30M

10. Describe the merits and demerits of both open loop and closed loop control systems using an appropriate example.

(CO2) [Application]

11. Define material planning and explain its influential factors in detail

(CO4) [Application]