

Roll No



**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF ENGINEERING
MID TERM EXAMINATION - APR 2023**

Semester : Semester VI - 2020

Course Code : MEC3023

Course Name : Sem IV - MEC3023 - Rapid Tooling and Industrial Applications

Program : MEC

Date : 15-APR-2023

Time : 09:30AM – 11AM

Max Marks : 50

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

PART A

ANSWER ALL THE QUESTIONS

(5 X 2 = 10M)

1. List the Rapid Tooling Techniques
(CO1) [Knowledge]
2. What is Tessalation
(CO1) [Knowledge]
3. What is Generative manufacturing Process
(CO2) [Knowledge]
4. List the steps involved in Solid Ground Curing (SGC) Process
(CO2) [Knowledge]
5. Define Rapid Tooling?
(CO1) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(2 X 10 = 20M)

6. Explain the Steps involved in rapid prototyping
(CO1) [Comprehension]
7. with a neat sketch Explain the working principle of Rapid Freeze Prototyping
(CO2) [Comprehension]

PART C

ANSWER THE FOLLOWING QUESTION

(1 X 20 = 20M)

8. Explain the Role of STL file in 3D Printing with suitable Example
(CO2) [Application]