(CO1) [Comprehension]

PRESIDENCY UNIVERSITY **BENGALURU**

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

Semester : Semester V - 2021 Course Code : MEC3017 Course Name : Sem V - MEC3017 - CAD for Additive Manufacturing Program : B. TECH

Date: 31-OCT-2023 Time: 11:30AM - 1:00PM 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.	Whats the function of automatic drafting in geometric modelling?	
2.	Additive manufacture uses CAD tool for designing the compone benefits of CAD in additive manufacturing	(CO1) [Knowledge] ents or parts any product. List out the
	Ŭ	(CO1) [Knowledge]
3.	List out the application of CAD in manufacturing industry	(CO1) [Knowledge]
4.	What is an IGES file used in CAD system?	
_		(CO2) [Knowledge]
5.	List out the transformation in computer graphics	(CO2) [Knowledge]
PART B		
	ANSWER ALL THE QUESTIONS	(4 X 5 = 20M)

- 6. Every design of product involves a set of process and regulation standards. Explain the four steps in CAD design process. (CO1) [Comprehension]
- 7. How does the geometric modelling fit into a modern design sequence?





Roll No

(CO1) [Comprehension]

9. Most of the openers probably convert an IGS file to a different file format, How to Convert an IGS File to DWG & DXF File explain the steps briefly

(CO2) [Comprehension]

PART C

ANSWER THE FOLLOWING QUESTION

(1 X 20 = 20M)

10. (a) Given a square object with coordinates points A (0,4), B (4,4),C (4,0)and D (0,0). Apply the scaling parameter 2 towards X axis and 3 towards Y axis and obtain the new coordinates of the objects. Show the graphical representation of the reflection. [10M] (C.O.2) [Application]
(b) Given a triangle with corner coordinates (0,0) (1,0) and (1,1) Rotate the triangle by 75 degree anticlockwise direction and find out the new coordinates [10M] (C.O.2) [Application]

(CO2) [Application]