

Register No.:

921

April 2023

*Time – Three hours
(Maximum Marks: 100)*

- N.B.**
1. Answer all questions under Part-A. Each question carries 3 marks.
 2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.

PART – A

1. Define the term CAD and list CAD activities.
2. List out the solid modeling entities.
3. Write about the CODE system of coding structure.
4. Define MPS.
5. Write the code for thread cutting.
6. Define virtual machining.
7. List out the types of FMS.
8. List the industrial applications of robots.
9. What is the basic concept of augmented reality?
10. What are the benefits of concurrent engineering?

[Turn over.....]

PART – B

11. (a) Explain 2D and 3D transformations.

(Or)

(b) Discuss about the three types geometric modeling techniques.

12. (a) Draw the CIM wheel and explain its components.

(Or)

(b) Discuss about the two types of CAPP in detail.

13. (a) (i) Explain the rectangular pocketing operation with suitable examples.(7marks)

(ii) Explain the peck drilling program with suitable examples.
(7 marks)

(Or)

(b) Discuss about rapid proto typing.

14. (a) Explain the basic robot motion with neat sketches.

(Or)

(b) Explain any two types of AGVs with neat sketches.

15. (a) Explain the process of Design for Manufacture and assembly.

(Or)

(b) Discuss about quality function deployment.