

Code No.: ME604PC

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
III-B.TECH-II-Semester End Examinations (Supply) - January- 2024
CAD & CAM
(MECH)

[Time: 3 Hours]

[Max. Marks: 70]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART-A

(20 Marks)

1. a) Define CAD. Mention areas of application of CAD. [2M]
- b) State the hidden line elimination. [2M]
- c) List the common entities of a typical surface modeler? [2M]
- d) Define geometric modeling? [2M]
- e) List out some of the important NC languages. [2M]
- f) Write any four application of NC system? [2M]
- g) What are the basic approaches of CAPP? [2M]
- h) List out the stages in Group Technology. [2M]
- i) What is the role of CIM in manufacturing? [2M]
- j) Is CIM a concept or a technology? [2M]

PART-B

(50 Marks)

2. How do you classify the various modelling systems on the basis of their capabilities? [10M]
- OR**
3. What is meant by product life cycle? Briefly describe with neat sketch? [10M]
4. Explain the constructive solid geometry CSG for the representation of solids. [10M]
- OR**
5. Describe with the help of neat sketches the major surface entities provided by the CAD/CAM system? [10M]
6. List out various types of G AND M codes and functions. [10M]
- OR**
7. Distinguish between numerical control and computer numerical control? [10M]
8. Discuss the basic code and structures used in Group technology? [10M]
- OR**
9. Explain in detail about the Production flow analysis? [10M]
10. Discuss in detail the types of FMS? [10M]
- OR**
11. Explain the working principle of CMM with neat sketch? [10M]
