



B.Tech VII Semester Supplementary Examinations, April 2024

CAD/CAM
(Mechanical Engineering)

Maximum Marks: 70

Date: 27.04.2024 Duration: 3 hours

- Note: 1. This question paper contains two parts A and B.
2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.
3. Part B consists of 10 questions. Answer any 5 questions which carries 12M.
4. Each question carries 12 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10X2M=20 Marks)

- 1 Define CADD.
- 2 What are the functions of CAD/CAM
- 3 Define modeling? list out its methods
- 4 What is meant by segmentation.
- 5 Explain the curves used in design.
- 6 What is the difference between CNC and DNC.
- 7 Write basic G and M codes.
- 8 Explain Group Technology.
- 9 What is meant by process planning.
- 10 What are the input and output devices of computer.

Part-B

Answer All the following questions.

(10MX 5=50Marks)

- 11 List out solid modeling methods? Explain any one method in modeling. [10]
OR
- 12 Name the types of printers? Explain about laser printer. [10]
- 13 Explain about transformation of geometry. [10]
OR
- 14 Explain any one line drawing algorithm. [10]
- 15 Explain about NC and CNC systems. [10]
OR
- 16 Define CAM? Explain its applications, advantages and disadvantages. [10]
- 17 Define process planning? Explain about computer aided process planning and its advantages. [10]
OR
- 18 What is the function of inspection? Explain with suitable examples. [10]
- 19 Explain about CIM? its applications and benefits. [10]
OR
- 20 What are the benefits of GT? Explain detail with applications. [10]