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Total No. of Printed Pages: [01]

Total No. of Questions: [11]

M. Tech ME (Semester – 2nd)

ADVANCED CAD/CAM

Subject Code: MMEE2207

Paper ID: [191009]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It carries 16 marks. It consists of 4 questions of 4 marks each.
2. Section B consist of 4 questions of 8 marks each. The student has to attempt any 3 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(4 marks each)

- Q1. Discuss with suitable diagram design process in general and using computers?
- Q2. Discuss the parametric representation of synthetic curve using suitable example?
- Q3. Discuss various types and applications of various types of 3D transformations?
- Q4. Discuss the basic concept of visual realization in CAD and explain hidden line removal method?

Section – B

(8 marks each)

- Q5. Discuss the role of hardware and software in CAD applications?
- Q6. Discuss the characteristics and equation of Bezier and B spline curves?
- Q7. Taking suitable 2D example explain concatenation of transformations?
- Q8. Write a short note on application of CAD/CAM integration in Manufacturing Industry?

Section – C

(10 marks each)

- Q9. Discuss the cubic spline interpolation method taking suitable example?
- Q10. Discuss in brief constructive solid geometry?
- Q11. Write a short note on Reverse Engineering and Rapid Prototyping?