

Code.No: RR410302

RR

SET-1

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010

CAD/CAM

(COMMON TO ME, MCT, MEP)

Time: 3hours

Max.Marks:80

Answer any FIVE questions

All questions carry equal marks

- - -

- 1.a] What are the basis fundamentals of CAD?
- b] Describe the different types of input devices in CAD. [8+8]
- 2.a] How do you differentiate the system software and application software.
- b] With neat sketches, explain the different types wire frame entities. [4+12]
- 3.a] Explain bicubic Bezier surface path? What are the characteristics of the Bezier surface?
- b] Describe the parametric equation of a B-spline surface? [8+8]
- 4.a] With suitable examples, explain about the B-rep model and C-rep models.
- b] Briefly explain about sweep representation. [10+6]
- 5.a] Discuss the following NC motion control system.
 - i) Point-point
 - ii) Straight cut
 - iii) Contouring
- b] Write short notes on
 - i) Linear interpolation
 - ii) Circular interpolation
 [8+8]
6. Enumerate the following coding systems used in GT
 - i) The code system
 - ii) The MICLASS system
 [16]
7. Describe the basic principles of material handling and explain the various types of material handling devices. [16]
- 8.a] Differentiate between retrieval CAPP system and generative CAPP system.
- b] Differentiate MRP and MRP-II [8+8]

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SET-2

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CAD/CAM

(COMMON TO ME, MCT, MEP)

Time: 3hours

Max.Marks:80

Answer any FIVE questions

All questions carry equal marks

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- 1.a] Explain bicubic Bezier surface path? What are the characteristics of the Bezier surface?
b] Describe the parametric equation of a B-spline surface? [8+8]
- 2.a] With suitable examples, explain about the B-rep model and C-rep models.
b] Briefly explain about sweep representation. [10+6]
- 3.a] Discuss the following NC motion control system.
i) Point-point ii) Straight cut iii) Contouring
b] Write short notes on
i) Linear interpolation ii) Circular interpolation [8+8]
4. Enumerate the following coding systems used in GT
i) The code system ii) The MICLASS system [16]
5. Describe the basic principles of material handling and explain the various types of material handling devices. [16]
- 6.a] Differentiate between retrieval CAPP system and generative CAPP system.
b] Differentiate MRP and MRP-II [8+8]
- 7.a] What are the basis fundamentals of CAD?
b] Describe the different types of input devices in CAD. [8+8]
- 8.a] How do you differentiate the system software and application software.
b] With neat sketches, explain the different types wire frame entities. [4+12]

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SET-3

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010

CAD/CAM

(COMMON TO ME, MCT, MEP)

Time: 3hours

Max.Marks:80

Answer any FIVE questions

All questions carry equal marks

- - -

- 1.a] Discuss the following NC motion control system.
 i) Point-point ii) Straight cut iii) Contouring
- b] Write short notes on
 i) Linear interpolation ii) Circular interpolation [8+8]
2. Enumerate the following coding systems used in GT
 i) The code system ii) The MICLASS system [16]
3. Describe the basic principles of material handling and explain the various types of material handling devices. [16]
- 4.a] Differentiate between retrieval CAPP system and generative CAPP system.
 b] Differentiate MRP and MRP-II [8+8]
- 5.a] What are the basis fundamentals of CAD?
 b] Describe the different types of input devices in CAD. [8+8]
- 6.a] How do you differentiate the system software and application software.
 b] With neat sketches, explain the different types wire frame entities. [4+12]
- 7.a] Explain bicubic Bezier surface path? What are the characteristics of the Bezier surface?
 b] Describe the parametric equation of a B-spline surface? [8+8]
- 8.a] With suitable examples, explain about the B-rep model and C-rep models.
 b] Briefly explain about sweep representation. [10+6]

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SET-4

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010

CAD/CAM

(COMMON TO ME, MCT, MEP)

Time: 3hours

Max.Marks:80

Answer any FIVE questions

All questions carry equal marks

- - -

1. Describe the basic principles of material handling and explain the various types of material handling devices. [16]
- 2.a] Differentiate between retrieval CAPP system and generative CAPP system.
b] Differentiate MRP and MRP-II [8+8]
- 3.a] What are the basis fundamentals of CAD?
b] Describe the different types of input devices in CAD. [8+8]
- 4.a] How do you differentiate the system software and application software.
b] With neat sketches, explain the different types wire frame entities. [4+12]
- 5.a] Explain bicubic Bezier surface path? What are the characteristics of the Bezier surface?
b] Describe the parametric equation of a B-spline surface? [8+8]
- 6.a] With suitable examples, explain about the B-rep model and C-rep models.
b] Briefly explain about sweep representation. [10+6]
- 7.a] Discuss the following NC motion control system.
i) Point-point ii) Straight cut iii) Contouring
b] Write short notes on
i) Linear interpolation ii) Circular interpolation [8+8]
8. Enumerate the following coding systems used in GT
i) The code system ii) The MICLASS system [16]

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