

WORK SHEET
UNIT-I

1. CAD stands for:
 - A) Computer Aided Drafting
 - B) Computer Aided Design
 - C) Computer Automated Design
 - D) Computer Assisted Development

Answer: B) Computer Aided Design

2. CAM stands for:
 - A) Computer Aided Manufacturing
 - B) Computer Automated Manufacturing
 - C) Computer Assisted Machining
 - D) Computer Aided Modeling

Answer: A) Computer Aided Manufacturing

3. One major benefit of CAD/CAM is:
 - A) Increased manual work
 - B) Reduced accuracy
 - C) Improved productivity
 - D) Higher production errors

Answer: C) Improved productivity

4. Which of the following is a CAD/CAM input device?
 - A) Printer
 - B) Plotter
 - C) Mouse
 - D) Monitor

Answer: C) Mouse

5. A design workstation is primarily used for:
 - A) Material storage
 - B) CAD/CAM processing and design activities
 - C) Machine maintenance
 - D) Packaging products

Answer: B) CAD/CAM processing and design activities

6. Which device is commonly used to produce hard-copy drawings in CAD?
 - A) Scanner
 - B) Plotter

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- C) Keyboard
- D) Joystick

Answer: B) Plotter

7. System software mainly:
- A) Designs products
 - B) Controls computer hardware operations
 - C) Creates engineering drawings
 - D) Performs manufacturing tasks only

Answer: B) Controls computer hardware operations

8. AutoCAD is an example of:
- A) System software
 - B) Utility software
 - C) Application software
 - D) Firmware

Answer: C) Application software

9. A CAD/CAM database is used to:
- A) Store and manage design information
 - B) Increase machine speed only
 - C) Replace software
 - D) Eliminate hardware requirements

Answer: A) Store and manage design information

10. Wireframe modeling represents an object using:
- A) Solid volumes only
 - B) Surfaces only
 - C) Edges and vertices
 - D) Colors only

Answer: C) Edges and vertices

11. Which of the following is a wireframe entity?
- A) Point
 - B) Line
 - C) Arc
 - D) All of the above

Answer: D) All of the above

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12. Interpolation is a method of:

- A) Estimating values within a given range of data points
- B) Removing data points
- C) Storing database records
- D) Generating machine codes

Answer: A) Estimating values within a given range of data points

13. In parametric curve representation:

- A) Coordinates are represented as functions of a parameter
- B) Curves cannot be modified
- C) Only straight lines are represented
- D) No parameters are used

Answer: A) Coordinates are represented as functions of a parameter

14. Which curve fitting technique provides smooth joining of curve segments?

- A) Circle fitting
- B) Cubic spline
- C) Polygon fitting
- D) Line fitting

Answer: B) Cubic spline

15. B-spline curves are preferred because they:

- A) Lack flexibility
- B) Provide local control over curve shape
- C) Can represent only straight lines
- D) Are difficult to modify

Answer: B) Provide local control over curve shape

Fill in the Blanks

1. CAD stands for _____ Aided Design.

Answer: Computer

2. CAM stands for Computer Aided _____.

Answer: Manufacturing

3. A major benefit of CAD/CAM is improved _____.

Answer: Productivity

4. A _____ is used to print large engineering drawings.

Answer: Plotter

5. The software that manages computer hardware resources is called _____ software.

Answer: System

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6. AutoCAD is an example of _____ software.
Answer: Application
7. A wireframe model consists of edges and _____.
Answer: Vertices
8. In curve fitting, _____ spline curves provide smooth transitions between curve segments.
Answer: Cubic
9. In a parametric curve, coordinates are expressed as functions of a _____.
Answer: Parameter
10. _____ curves provide local control and flexibility in geometric modeling.
Answer: B-spline

Answer Key

MCQs: 1-B, 2-A, 3-C, 4-C, 5-B, 6-B, 7-B, 8-C, 9-A, 10-C, 11-D, 12-A, 13-A, 14-B, 15-B

Fill in the Blanks:

1. Computer
2. Manufacturing
3. Productivity
4. Plotter
5. System
6. Application
7. Vertices
8. Cubic
9. Parameter
10. B-spline



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