* List out various stages in the life cycle of the product?
* Explain Relationship between CAD/CAM.
* What are Graphical Printers? Explain Types?
* Give differences between Bezier and B-Spline Curves?
* Discuss the equation and characteristics of Bezier curve?
* Write the brief note on the parametric representation of a Bezier curve?
* Why B-Rep Modelling approaches are widely followed by than approach?
* Compare line, surface and solid modelling in every aspect for industrial applications with examples.
* Explain Solid Modelling Methods.
* Explain Homogeneous 2D Transformations?
* Explain with Figure Homogeneous co-ordinate representation
* Explain 2D transformation with matrix?
* Explain Canned cycle with an example part.
* Classify CNC Systems. And Differentiate NC and CNC systems.
* Explain Automatic tool changer (ATC) ) with Figure?
* Explain rapid manufacturing?
* Explain Process chain for rapid prototype development?
* What is the need for a prototype in new product development?
* What are Plotters in Hard Copy Devices? Explain one type
* Define CAD workstation? What are functions of Workstation?
* Define Harmite Curve? Write parametric equation of Hermite Cubic curve?
* write and Explain name of important characteristics of Curves?
* What are the applications of surface modelling?
* Describe various surface modelling with neat sketch?
* Detail out the Constructive Solid Geometry (CSG) model with suitable example
* Define geometric mapping? Give benefits of GT?
* Discuss the application of various geometric transformation using suitable examples.?
* Classify CNC Systems. And Differentiate NC and CNC systems
* Explain Direct numerical control (DNC) with Figure?
* List out G Codes? Explain Any 5 G Codes?
* Advantages and disadvantages of rapid prototyping?
* Give Classification of RP Processes? Explain Any one of RP Processes?
* Explain Process chain for rapid prototype development?
* What is the difference between CAD/CAM and CIM?
* Explain the scope of CAD/CAM/CIM in product cycle.
* Define CAD workstation. What are functions of Work-station
* What is non-parametric representation of curves?
* Write down the difference between Hermit curve and Bezier curve.
* Write and Explain name of important characteristics of Curves. Define B-Spline Surface
* Detail out the CSG model with suitable example
* What is a wireframe model and discuss hidden line removal concept in it.
* Explain Boundary Representation (B-rep).

What are the benefits of geometrical transformation?

* Using suitable 2D examples explain Varies types of Geometric transformations.
* Explain Inverse transformations.
* Step by step discuss CNC Manual part programming methods.
* Evaluate the following function in CNC Machining i) G Codes and M codes ii) Canned cycle
* List out M Codes? Explain Any 5 M Codes. .

Explain with Steps Process of rapid prototyping.

* Explain Process chain for rapid prototype development.
* Give Classification of RP Processes. Explain Any one of RP Processes.