

Branch - Mechanical Engg.

Sem - 6th

Sub - Advance Manufacturing & CAD/CAM

1.0. Non-conventional Machining Process

Short Question

1. Write down the name of dielectric fluid used in EDM.
2. Write down the abrasive materials used in ASM.
3. Write the different tool material used in ASM.
4. What do you mean by LASER?

Long Question

1. Explain working principle of EDM.
2. Explain the working principle, advantage & disadvantage of LBM.
3. Explain the working principle, advantage & disadvantage of ECM.
4. Write the difference between ECM & EDM.
5. How plasma arc is created in PAM.

2.0 - Automation

short question

1. Define automation.
2. Write advantage of Automation

Long Question

1. Explain different type of automation system.
2. Explain need of automation in industry.

3.0 . Numerical Control

Short Question

1. classify numerical control.
2. Write difference between point-to-point & contouring control system.
3. Write different types of codes used NC machine with example.

Long Question

1. Explain NC system with block diagram.

4.0 - Robot Technology.

Short Question

1. What is robot with application?
2. Write basic element of robot anatomy.
3. Write the application of robot.
4. What is SCARA configuration?
5. Write the specification of robot.

Long Question

1. Describe the robot manipulator with diagram.
2. Write different types of Joint.
3. Describe with neat sketch robot configuration of the system.

5.0 - Flexible Manufacturing System (FMS)

Short Question

1. What is FMS?
2. Why industry need FMS?
3. Write the advantage of FMS.
4. Write different component of FMS.
5. Write use of computer control system in industry.

Long Question

1. Describe different component of FMS.
2. Briefly describe material handling system.

6.0. CAD/CAM and CIM;

Short Question

1. Define CAD.
2. Define CAM.
3. Define CIM.
4. Write the difference between CAM & CIM.
5. Write the characteristics of CAD/CAM system.
6. Write Benefits of CAD/CAM.
7. Write the benefit of CIM.
8. What are the advantage of CIM.

Long Question

1. Explain the CAD software & hardware.
2. Explain the software & hardware of CIM.
3. Write the difference between CAD & CAM.