

SECTION-B

2. How non-traditional machining processes can be classified?
3. Explain the material removal mechanism in EDM process giving a neat sketch. Also explain the process parameters used in EDM process.
4. Describe the working and schematics of electrochemical deburring process with the help of a neat sketch.
5. Explain the construction and working of EDM machines with the help of a neat sketch. Also explain the criteria of selection of electrode material in EDM process.
6. Explain the working and construction of air-plasma machining process giving a neat sketch.

SECTION-C

7.
 - (a) Describe the material removal mechanism of abrasive flow machining process with the help of a neat sketch. Also explain the applications and limitations of AFM machine.
 - (b) Explain the steps involved in material removal in chemical machining process. Also explain the tooling for chemical machining.
8.
 - (a) Differentiate between sludging and non-sludging electrolytes used in electro chemical machining process. How flow of electrolyte is maintained in ECM process?
 - (b) Explain the working and construction of solid state laser machining process giving a neat sketch.
9.
 - (a) Describe the material removal mechanism of ultrasonic machining process with the help of a neat sketch.
 - (b) Explain the construction of electron beam gun and diffusion pump in electron beam machining process giving neat sketches.

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