

SECTION - B

2. Classify the non-traditional machining processes. Compare conventional machining processes with non-traditional machining processes.
3. State and explain the mechanism of material removal in water jet machining process. Write its working principle. Give simple sketch of this machining process.
4. Discuss the principle of electric discharge machining, giving a neat sketch. What factors govern the selection of tool material for EDM process?
5. Explain the working principle of Electro-Chemical Machining (ECM) and also elaborate the electrochemistry of the ECM process.
6. Explain the principle, working, applications and limitations of LBM. Compare EBM and LBM processes.

SECTION - C

7.
 - a) Explain briefly the principle and working of Ultrasonic Machining giving a neat sketch and explain the key elements of USM setup.
 - b) Sketch a set up for electron beam machining. Discuss the operation of generation of the electric beam giving a neat sketch.
8.
 - a) Describe the characteristic features of various types of plasma arc torches used in Plasma Arc Machining giving neat sketches.
 - b) Sketch the set up for electrochemical honing process and describe salient features along with application of the process.
9.
 - a) Explain the various types of maskants used in the chemical machining? Describe their method of application and areas of application.
 - b) Explain any hybrid machining process giving a neat sketch.

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