

**Department of Mechanical Engineering, NIT Srinagar**

**M.Tech. (2<sup>nd</sup> Semester)/ Ph.D., Spring -2020**

**Subject: Advanced Manufacturing Systems (TMM204 / MSD205)**

**Assignment-II**

**Last Date for submission: 26<sup>th</sup> May, 2020**

- 1 Why is the demand of miniaturization increased in manufacturing industries? Classify the micro machining processes. Briefly explain Diamond micro turning.
- 2 How is Electrochemical Micro-machining used for removing material? Support your answer with a neat sketch.
- 3 Briefly explain Electron beam machining and Ultrasonic micro machining with a neat sketch.
- 4 Describe the mechanism of material removal in Electric Discharge Micro Machining ( $\mu$ EDM)? Briefly explain its advantages and applications.
- 5 How does non-conventional machining differ from conventional machining? List any ten non-conventional machining processes.
- 6 Discuss the applications of superfinishing processes. Explain the process of Magneto rheological abrasive flow finishing.

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- **Submit your assignment by uploading on Google classroom (Code: b2z7nj4) on or before the last date of submission.**