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M.Tech I Semester Regular & Supplementary Examinations January/February 2019

ADVANCES IN MANUFACTURING TECHNOLOGY

(Common to CAD/CAM, PE&ED and PE)

(For students admitted in 2017 & 2018 only)

Time: 3 hours

Max. Marks: 60

Answer all the questions

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1 Explain about thermal and mechanical coating processes with neat sketch.

OR

- 2 Explain about physical vapour deposition and chemical vapour deposition with neat sketch.
- 3 Describe the apparatus, process parameters, process capabilities and applications of abrasive jet machining.

OR

- 4 Explain the principle and working of ultrasonic machining process.
- 5 Describe the construction and working principle of EDM process. Write its advantages, disadvantages and applications. Also discuss the effect of process parameters on the metal removal in EDM.

OR

- 6 With the help of a diagram, explain the working of ECM process. Also write its advantages, disadvantages and applications.
- 7 Explain different types of plasma arc machining process with a neat sketch. Also state its advantages, disadvantages and applications.

OR

- 8 Explain the principles, machining system, process capabilities, applications and advantages of EBM with a neat sketch.
- 9 Explain the production of laser beam and working principle of LBM process.

OR

10 Explain the principle of LBM with neat sketch. Also discuss the effect of machining parameters on surface finish, applications and limitations.

