

Roll No. :

MMIP-105
M.E./M.Tech., I Semester
Examination, December 2017
Manufacturing Science

Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any Five questions.
ii) All questions carry equal marks.

1. a) Discuss the advantages of casting process.
b) Compare different types of Sand mould.
2. a) How is metal cold worked? Explain.
b) What is angle of bite in rolling? On what factor does it depend?
3. a) Compare extrusion and forging.
b) Describe a progressive die.
4. a) List principle advantages of Arc welding over Gas welding.
b) Discuss weldability of Aluminium.
5. What is EDM? Explain principle of operation and its advantages over conventional operation.
6. a) Discuss the main features of Jig design.
b) Write a note on Linear measurements.

7. a) What do you mean by limits? Discuss.
b) What are the various measuring devices for surface roughness? Explain any one.
8. Write short notes on any two:
 - a) Laser Arc machining
 - b) Automation in welding
 - c) Angular measurements
 - d) Standards of measurement
