

**DIPLOMA IN MECHANICAL ENGINEERING
(DME)**

Term-End Examination,

December 2019

BME-054 :MANUFACTURING PROCESS - II

Time : 2 Hours]

[Maximum Marks : 70

Note : (i) Answer any seven questions.

(ii) All questions carry equal marks.

1. a) What is forging? List the different types of forging operations. 5
b) What are the products formed by powder metallurgy? Give their superior characteristics over metallic products. 5
2. Describe the effect of temperature on sheet metal working. Explain the difference between hot working and cold working of metal. 10
3. a) Enumerate and explain briefly different types of soldering defects. 5
b) How are the flames in gas welding formed? What are the three types of flames in oxy-acetylene gas welding? 5

(2)

4. a) What is grinding process? Differentiate between soft and hard grinding wheels. 5
b) Write the applications of centreless grinding and surface grinding. 5
5. Explain any two electro-forming processes with sketch. 10
6. Describe the process of metal arc welding with the help of a neat diagram. 10
7. What are the different types of surface finishing processes? Explain any two with sketch. 10
8. a) Explain the hot dip galvanizing process. 5
b) Describe the processes of electroplating. 5
9. a) Explain lapping process and the tools used for lapping process. 5
b) Briefly explain any two super finishing operations. 5

