

II B. Tech II Semester Supplementary Examinations, April - 2021
PRODUCTION TECHNOLOGY
 (Com to ME, AME)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
 2. Answer **ALL** the question in **Part-A**
 3. Answer any **FOUR** Questions from **Part-B**

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**PART -A**

1. a) Write any two merits and demerits of using metal pattern in casting. (2M)
- b) Draw and denote different parts of pit type crucible furnace. (3M)
- c) Write a short note on left ward welding with a diagram. (3M)
- d) Define brazing. How it differs from braze welding. (2M)
- e) What is sintering? What is the advantage of doing sintering? (2M)
- f) Write any four applications of thermo plastics. (2M)

**PART -B**

2. Write a short note on (i) Floor moulding (ii) bench moulding (iii) Pit moulding (iv) Sweep moulding (v) Plate moulding (vi) machine moulding (14M)
3. (a) What do you meant by the term “Risering”? State the advantages that are provided by the riser. What is the best shape and size of the riser? Why? (6M)
- (b) Write any eight casting defects? State their causes and remedies. (8M)
4. a) Explain the working principle of plasma arc welding with a neat diagram. (7M)
- b) What is Gas welding? Describe in brief the equipment required for Oxy-Acetylene welding. (7M)
5. a) Explain the working principle of laser beam welding with a neat diagram. (7M)
- b) Explain about explosive welding and give its advantages (7M)
6. a) Write any three advantages and three applications of powder metallurgy. (6M)
- b) Write a short note on (i) Smith forging and (ii) Drop forging. (8M)
- 7 Explain about explosive forming process. Also state its merits and demerits. (14M)

