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Code No: RT22033 (R13) (SET - 1)

II B. Tech II Semester Supplementary Examinations, April/May – 2019 PRODUCTION TECHNOLOGY

(Common to ME and 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 **THREE** Questions from **Part-B**

PART – A

- 1. a) What are the constituent materials used in foundry sand and what percentage.
 - b) What is directional solidification?
 - c) What is the basic principle of Arc welding?
 - d) Differentiate soldering & brazing process.
 - e) Differentiate between casting and pattern.
 - f) Describe the coining & spinning methods.

(4M+3M+4M+4M+3M+4M)

PART – B

- 2. Describe the types of patterns used and its use in various applications. (16M)
- 3. Sketch and explain investment casting. Also mention its applications. (16M)
- 4. Describe the characteristic features of TIG welding and its applications. (16M)
- 5. Explain any two of the following
 - a) Laser welding
 - b) Electron beam welding.

(8M+8M)

- 6. a) Differentiate hot working & cold working process.
 - b) What is strain hardening?

(12M+4M)

- 7. a) What is a bending operation? What is spring back & its remedies.
 - b) What are the forces and power requirement in sheet metal forming operations?

(6M+10M)