

Code No: R1622033

R16**SET - 1****II B. Tech II Semester Supplementary Examinations, November - 2018****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 4 important factors that are to be considered while casting. (2M)
- b) State the main function of Tuyers in Cupola furnace. (2M)
- c) What are different types of flames in welding? Explain. (3M)
- d) Define resistance welding process. (2M)
- e) Write about 3 forging defects, their causes and remedies. (3M)
- f) What is Coining and Spinning. (2M)

**PART -B**

2. a) What are the functions of a gating system? Explain with a neat diagram. (7M)
- b) Explain about different pattern allowances. (7M)
3. Explain different steps involved in investment casting with neat diagram. (14M)
4. a) Explain about TIG welding process in detail with a sketch. (7M)
- b) Write about different types of weld joints with neat diagram of each joint. (7M)
5. a) What is Thermit welding? Explain the process. Also list any three advantages and limitations. (7M)
- b) What are different welding defects? Write briefly about seven defects, their causes and remedies. (7M)
6. a) Explain the classification of rolling mills based on number of rollers with sketches. (7M)
- b) Explain briefly about rotary forging. (7M)
7. a) Explain about electromagnetic forming process. (7M)
- b) Write a short note on V-bending and Edge bending. (7M)