

**II B. Tech II Semester Supplementary Examinations, Dec - 2015**  
**PRODUCTION TECHNOLOGY**  
 (Comm. 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 **THREE** Questions from **Part-B**
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**PART -A**

1. a) Write about the principles of Gating system? (4M)
- b) Explain about solidification of alloys? (3M)
- c) Write down the functions of coating on electrode in arc welding? (3M)
- d) Explain about heat affected zones in welding? (4M)
- e) Explain about the plastic deformation in alloys? (4M)
- f) Write about force requirements in blanking operation? (4M)

**PART -B**

2. a) Enumerate various types of pattern allowances and explain them briefly? (8M)
- b) Explain about steps involved in making a casting process? (8M)
3. Write about the relative advantages and disadvantages of various types of furnaces used in foundry shops and explain them with neat sketches? (16M)
4. a) Explain the submerged arc welding with a neat sketch and explain its applications? (8M)
- b) Write about the characteristics of welded joints? (8M)
5. a) What are the common welding troubles, causes and remedies for them? (10M)
- b) Explain about Resistance welding with neat diagram? (6M)
6. a) Write about forging defects in detail? (8M)
- b) Explain about wire drawing and tube drawing? (8M)
7. a) Explain about coining and spinning in detail? (8M)
- b) Write about properties and applications of plastics? (8M)

