

II B. Tech II Semester Supplementary Examinations, Nov/Dec-2016**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 questions in **Part-A**
 3. Answer any **THREE** Questions from **Part-B**

PART -A

1. a) Write about the various applications of casting process? (3M)
- b) Write about the types of risers? (4M)
- c) What are the similarities between consumable – and non consumable electrode arc welding process? (4M)
- d) Explain the advantages of brazing? (4M)
- e) Explain about the plastic deformation in metals? (4M)
- f) Explain about power requirements in piercing operation? (3M)

PART -B

2. a) What are the elements involved in the gating system with the help of suitable sketches and explain? (8M)
- b) List and explain the considerations for selecting pattern materials? (8M)
3. a) What is Investment casting? What is the main material used for making an Investment Pattern? What are the methods of applying the Investment material to the pattern? (10M)
- b) Explain about the design considerations for casting process? (6M)
4. a) Write the different types of flames and their uses? (8M)
- b) Explain about manual metal arc welding in detail? (8M)
5. a) Explain about thermit welding and plasma welding with neat sketches? (10M)
- b) Write about design of welded joints? (6M)
6. a) Explain about drop Forging and Rotary forging in detail? (8M)
- b) Write about strain hardening and annealing operations? (8M)
7. a) Explain the importance of stretch forming with neat diagram? (8M)
- b) With the help of a neat sketch explain injection moulding process? (8M)
