

END TERM EXAMINATION

FIRST SEMESTER [B.TECH.] NOVEMBER - DECEMBER 2017

Paper Code: ETME-105

Subject: Manufacturing Processes

Time: 3 Hours

Maximum Marks: 75

Note: Attempts all questions. Internal choice is indicated.

- Q1 Write short note on followings:- (5x5=25)
- (a) Pattern allowances.
 - (b) Classification of carbon steels.
 - (c) Forging defects and their remedies.
 - (d) Give the necessity of flux and its composition.
 - (e) Explain and differentiate embossing and coining giving their uses.
- Q2 What are alloy steels? Discuss various heat treatment processes of carbon steels. (12.5)
- OR**
- Describe investment casting process with neat diagram, its uses and limitations.
- Q3 Explain various forging processes giving the tools required and their uses. (12.5)
- OR**
- Describe the different tools used in fitting and thread cutting with neat diagram.
- Q4 Give the classification of the welding processes and explain submerged arc welding with neat diagram. (12.5)
- OR**
- Describe different electric resistance welding processes giving their uses.
- Q5 Describe the different sheet metal work processes and tools used for them giving their limitations. (12.5)
- OR**
- What is powder metallurgy? Explain the processes of pulverization, compaction and sintering. (12.5)
