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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)**B.Tech II Year II Semester Supplementary Examinations October-2020****MANUFACTURING TECHNOLOGY**

(Mechanical Engineering)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

**UNIT-I**

- 1 a Describe the defects in casting. 6M  
 b Explain the various properties of moulding sand. 6M

**OR**

- 2 a With neat sketch explain shell moulding process. 6M  
 b What are the aims in making a casting? 6M

**UNIT-II**

- 3 a Write short notes on submerged arc welding and write its applications. 8M  
 b What are the different fields of applications of welding process? 4M

**OR**

- 4 a What are the essential steps in brazing operation? 7M  
 b What is soldering process? 5M

**UNIT-III**

- 5 a Explain cold working process with an example, its processes used. 6M  
 b What is closed, impression die forging? Give its processes. 6M

**OR**

- 6 a What are the characteristics of rolling processes? 5M  
 b What are the defects in rolled parts? How we can rectify the same? 7M

**UNIT-IV**

- 7 a Explain the Stretch forming operations & its applications. 6M  
 b Explain the Magnetic pulse forming operation. 6M

**OR**

- 8 a Write detailed notes on Micro forming Operations 6M  
 b What explosives are used in explosive forming & how safety is measured? 6M

**UNIT-V**

- 9 a Explain the polymerization briefly. 6M  
 b Differentiate thermo plastics and thermo settings. 6M

**OR**

- 10 a What are the foamed plastics and state how foaming is done. 6M  
 b State how joining and machining of plastics are carried out. 6M

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