

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year II Semester Supplementary Examinations May/June-2024
MANUFACTURING PROCESSES
(Mechanical Engineering)

Time: 3 Hours**Max. Marks: 60****PART-A**

(Answer all the Questions 5 x 2 = 10 Marks)

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| 1 | a | Write the requirements of good pattern. | 2M |
| | b | How does brazing differ from braze welding? | 2M |
| | c | How are seamless tubes produced? | 2M |
| | d | What is punching operation ? | 2M |
| | e | List the advantage of cold forming of plastics? | 2M |

PART-B

(Answer all Five Units 5 x 10 = 50 Marks)

UNIT-I

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|---|----------|--|----|
| 2 | a | Describe CO2 Process. | 5M |
| | b | What do you understand by external hot tears? How they are caused? | 5M |

OR

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|---|----------|---|----|
| 3 | a | Describe the defects in casting? | 5M |
| | b | Sketch and explain different types of patterns used in foundry. | 5M |

UNIT-II

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| 4 | a | Write short notes on submerged arc welding and write its applications. | 5M |
| | b | Write short note on Heat Affected Zone (HAZ) in welding. | 5M |

OR

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|---|----------|---|----|
| 5 | a | Explain the working of oxy acetylene gas welding. | 5M |
| | b | Explain the working of submerged Arc welding briefly. | 5M |

UNIT-III

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|---|----------|---|----|
| 6 | a | Explain hot working process with, applications& limitations | 5M |
| | b | Explain cold working process with applications& limitations | 5M |

OR

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| 7 | a | What is closed, impression die forging? Give its processes | 6M |
| | b | What are the characteristics of forging processes? Write Processes | 4M |

UNIT-IV

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|---|----------|--|----|
| 8 | a | What are the types of shearing? | 6M |
| | b | Sketch& explain the Drawing operation. | 4M |

OR

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| 9 | a | Write short notes on Introduction of explosive forming with its applications. | 5M |
| | b | Explain the Magnetic pulse forming operations. | 5M |

UNIT-V

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| 10 | Explain the working principles and application of Transfer Moulding. | 10M |
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OR

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| 11 | a | Explain the various methods of Bonding of Thermoplastics | 5M |
| | b | What are the major considerations in the design of plastic parts? | 5M |

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