



COURSE CODE: 1950513 REG NO. XXXXXX

MARRI LAXMAN REDDY

INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)

(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)

Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section 2(f) & 12(B) of the UGC act, 1956

II B.Tech I Sem Regular End Examination, March 2021

PRODUCTION TECHNOLOGY

(MECHANICAL)

Time: 3 Hours.

Max. Marks: 70

Note: 1. Answer any FIVE questions.

2. Each question carries 14 marks and may have a, b as sub questions.

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|---|----|--|----|----|----|
| 1 | a) | Explain the working principle of hot chamber and cold chamber die casting process. | 7M | CO | BL |
| | b) | Explain about sand casting process with a neat sketch. | 7M | CO | BL |
| 2 | a) | Explain different steps involved in Investment casting with a neat diagram. | 7M | CO | BL |
| | b) | With neat sketch, explain shell molding process. | 7M | CO | BL |
| 3 | a) | Explain about gas welding process with a neat sketch. | 7M | CO | BL |
| | b) | Write the difference between forge welding and Arc welding. | 7M | CO | BL |
| 4 | a) | With a neat sketch, explain the TIG welding process. | 7M | CO | BL |
| | b) | Explain MIG welding process with neat sketch. | 7M | CO | BL |
| 5 | a) | With a neat sketch, explain the classification of welding process? | 7M | CO | BL |
| | b) | Explain Destructive and Non-destructive Testing methods of welds? | 7M | CO | BL |
| 6 | a) | What are different types of drawing? Explain wire and tube drawing with a neat sketch. | 7M | CO | BL |
| | b) | Classify different types of presses and its applications. | 7M | CO | BL |
| 7 | a) | With neat sketch, explain Two high, Three high Planetary rolling mills. | 7M | CO | BL |
| | b) | Explain Forging operations and its working principle. | 7M | CO | BL |
| 8 | a) | Write the advantages, limitations and applications of extrusion process. | 7M | CO | BL |
| | b) | Explain the working principle of Explosive Forming? | 7M | CO | BL |