Final: 29-10-21

Course Code: 1930313

Roll No:

MLRS-R19



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 Section2(f) & 12(B)of the UGC act, 1956

II B.Tech I Sem Supply End Examination, October 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.

1	a)	Give the steps in Sand casting process and explain briefly	7M	CO1	BL4
	b)	Describe Centrifugal casting process and to what work piece configuration it is best suited	7M	CO1	BL2
2	a)	What are different types of Sand moulding? Explain its advantages, disadvantages and limitations	7M	CO1	BL4
	b)	With neat sketch explain design of riser and its types?	7M	CO1	BL4
3	· a)	What are the different types of Welded joints? Explain	7M	CO2	BL4
	b)	What is Oxy-acetylene welding? Explain two methods of welding by means of oxy-acetylene blow pipe	7M	CO2	BL4
4	a)	Classify different welding process? To which group laser beam welding	7M	CO2	BL2
	b)	belongs? Explain about laser beam welding with a neat sketch. Differentiate between TIG and MIG welding?	7M	CO3	BL2
5	a)	Write difference between Resistance and Thermit welding?	7M	CO3	BL1
	b)	Explain various welding defects.	7M	CO3	BL4
6	a)	Define Rolling? Explain principle and mechanism of rolling	7M	CO4	BL4
	b)	What is High Energy Rate Forging processes explain?	7M	CO4	BL1
7	a)	What are the different Sheet metal operations? Explain	7M	CO4	BL1
	b)	Difference between cold working and hot working process.	7M	CO5	BL2
8	a)	Explain with a neat sketch tools used in forging?	7M	C05	BL4
	b)	Differentiate between Impact extrusion and hydrostatic extrusion?	7M	CO5	BL2

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