Paper / Subject Code: 51623 / Production Process

1T01433 - S.E.(Mechanical) Engineering)(SEM-III)(Choice Base Credit Grading System) ((R-19) (C Scheme) / 51623 - Production Process QP CODE : 10026756 DATE: 30/05/2023

Duration: 3 Hours

Total Marks-80

NB:	 First Question (Q.1) is Compulsory. Attempt any 3 questions from the remaining 5 (Q.2 - Q.6) questions. Figures to the right indicate full marks Proportionate and labelled free-hand sketches would do 	
Q. 1 S	Solve any Four out of Six. a) Explain types of gates. b) Differentiate between soldering and brazing.	20
	c) Explain selection of grinding wheel.	
	 d) Explain Internet of Things. e) Discuss Electro-chemical machining. f) Various steps involved in powder metallurgy. 	S SELT
Q. 2	a) Draw and explain Geometry of a Single Point Cutting Tool.	10
	b) Draw and explain screw type injection moulding process with its advantages, Limitations and applications.	10
Q. 3	a) Explain working, advantages and limitations of ultrasonic machining.	10
367	b) Draw and explain significance of various elements of gating system in sand	10
E P	casting.	
Q. 4	a) Draw and explain in brief the various welding defects their causes and remedies.	10
185	b) Describe the types of drilling machine and their application.	10
Q. 5	a) Explain working of Submerged Arc Welding with its applications, advantages. and limitations.	10
	b) Draw and explain in brief the various rolling defects their causes and remedies.	10
Q. 6	 Write short notes on (Any four) a) Compare wood and metal as pattern materials. b) Classify Production Processes c) Quick return mechanism on shaper. d) Open die and Closed die forging. e) CO2 Shell Moulding Process. f) Cloud manufacturing. 	20
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