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		GUJARAT TECHNOLOGICAL UNIVERSITY BE- SEMESTER–VII (NEW) EXAMINATION – WINTER 2020	
Subje	ect C	ode:2172003 Date:25/01/20	21
Time	:10:3	ame:Manufacturing Technology - II 60 AM TO 12:30 PM Total Marks	: 56
Instruc	1. A 2. N	Attempt any FOUR questions out of EIGHT questions. Take suitable assumptions wherever necessary. Yigures to the right indicate full marks.	
Q.1	(a)	What is 'pattern'? What are the different materials used for making a pattern?	03
	(b) (c)	What is 'rolling'? Explain with neat sketch showing all parameters. Explain the Taylor's principle of gauge design giving example.	04 07
Q.2	(a)	Explain blanking and piercing operations of sheet metal with neat sketch.	03
	(b)	Differentiate between Jigs and Fixtures in table format giving example and sketch.	04
	(c)	How an arc welding machine is specified? Explain.	07
Q.3	(a)	What is meant by 'Shielded' in SMAW?	03
	(b)	What is 'drawing' operation in sheet metal working?	04
	(c)	Write a short note on 'Die casting'.	07
Q.4	(a)	What is 'Spring back' effect in sheet metal? Explain with sketch.	03
	(b)	Briefly explain SAW with neat sketch of set up.	04
	(c)	Write a short note on 'Investment Casting',	07
Q.5	(a)	What is 'resistance welding '? What are the types of resistance welding?	03
	(b)		04
	(c)	Explain 3-2-1 location system with reference to Jigs and fixtures .	07
Q.6	(a)	Briefly explain the significance of 'polarity' in case of arc welding.	03
	(b)	What is the effect of moisture content on permeability and strength of molding sand? Explain.	04
	(c)	What are the main elements of Jigs and Fixtures ? Explain any one with neat sketch.	07
Q.7	(a)	What is 'Spinning' operation in sheet metal? Explain.	03
	(b)	How angular measurement can be carried out? Explain.	04
	(c)	Write a short note on AJM giving process set up and variables.	07
Q.8	(a)	How linear measurement is carried out? Explain.	03
	(b)	Write a short note on 'Gas Welding'.	04
	(c)	Write a short note on EDM giving process set up and variables.	07
