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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-VII(NEW) EXAMINATION - SUMMER 2019

Subject Name: Manufacturing Technology - II

Time:02:30 PM TO 05:00 PM Total Marks: 70

**Instructions:** 

1. Attempt all questions.

Subject Code:2172003

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Comparison between forward extrusion and reverse extrusion.	03
	(b)	What is pattern? Classify types of pattern allowance. Explain Any two	04
		allowances.	
	(c)	Different between cold working and hot working. And also explain	07
		crystalline temperature with type.	
Q.2	(a)	List out casting defects. Explain any five Defects.	03
	(b)	Explain different type of Gas Flame	04
	(c)	Define following terms.	07
		1)marking 2)bloom 3) Notching 4) Billet 5) piercing 6) lancing 7)	
		Blanking	
		OR	
	(c)	Explain properties of liquid metal. And also different type of gates.	07
Q.3	(a)	Give Advantages and disadvantages of gating system.	03
	(b)	Explain welding process parameters and its effect.	04
	(c)	Explain centrifugal Casting process. And also give advantages and	07
		disadvantages	
		OR	
Q.3	(a)	Differentiate between arc welding process and resistance welding process.	03
	(b)	List out moulding sand testing. Explain any one.	04
	(c)	Explain the different types of clamps used in jigs and fixtures.	07
Q.4	(a)	Classification of Non-Traditional manufacturing process. Explain Electric	03
	<i>a</i> >	Discharge machining process.	0.4
	(b)	Write short note on LBM.	04
	(c)	Describe the applications of plate jigs. <b>OR</b>	07
Q.4	(a)	Explain electron polarity and type of Current.	03
_	(b)	Write short note on ECM.	04
	(c)	Explain Sine bar and Give its application, merits and Demerits.	07
Q.5	(a)	Explain Concept of direct and indirect measurement.	03
	(b)	Explain (EBM) electron beam welding process. And also give advantages	04
	( )	and disadvantages	
	(c)	Explain the function of Jig and fixture. Explain the concept with example	07
		of redundant location.	
0 =		OR	0.5
Q.5	(a)	Explain Taylors gauging Principle.	03
	(b)	Write short note on SAW.  Explain Investment casting with advantages, disadvantages and also	04 07
	(c)	Explain investment casting with advantages, disadvantages and also	U/

application.