



## GUJARAT TEVYFINOTONEL UNIVERSISTRANKER.com

**BE - SEMESTER- VII (New) EXAMINATION - WINTER 2019** 

Subject Code: 2172003 Date: 28/11/2019

Subject Name: Manufacturing Technology - II

Time: 10:30 AM TO 01:00 PM Total Marks: 70

**Instructions:** 

1. Attempt all questions.

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

	3.	rigures to the right mulcate full marks.	MARKS
Q.1	(a)	What is extrusion? Explain any one method with neat sketch.	03
•	( <b>b</b> )	Classify types of pattern. Explain Any two with neat sketch.	04
	(c)	Write a short note on 'Submerged Arc Welding'.	07
Q.2	(a)	Explain Concept of direct and indirect measurement.	03
	<b>(b)</b>	Differentiate between jigs and fixtures.	04
	(c)	Explain Investment casting with advantages, disadvantages and also application.	07
		OR	
	(c)	What are the common defects of casting? State their causes and remedies.	07
<b>Q.3</b>	(a)	List out pattern allowances. Explain any two allowances.	03
	<b>(b)</b>	Compare TIG and MIG welding.	04
	(c)	What is 'Taylor's principle of gauge design'? Explain giving neat sketches and example.	07
		OR	
<b>Q.3</b>	(a)	List out types of gates. Explain any two gates in detail.	03
	<b>(b)</b>	Write down difference between cold working and hot working.	04
	(c)	Show the procedure for measuring angle using sine bar with neat sketch and related equation.	07
Q.4	(a)	Explain drawing process and list down types of drawing operations.	03
	<b>(b)</b>	What are the different forging operations? Explain any one with neat sketch.	04
	(c)	Write a short note on AJM.	07
OR			
<b>Q.4</b>	(a)	Explain the function of riser in gating system with sketch.	03
	<b>(b)</b>	Explain welding process parameters and its effect	04
	(c)	Explain the working of EDM with neat sketch.	
Q.5	(a)	Explain Piercing process with neat sketch.	03
	<b>(b)</b>	Explain two important principles of Jigs and fixture design giving neat	04
		sketches	
	(c)	Briefly explain the effect of moisture content on molding sand	07
		parameters such as strength, permeability and hardness.	
0.5		OR	0.2
Q.5	(a)	Explain spinning operation of sheet metal with neat sketch	03
	(b)	Write a short note on Gas Welding with necessary sketches.	04 07
	<b>(c)</b>	Explain the different types of clamps used in jigs and fixtures	U/

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