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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) EXAMINATION - WINTER 2018

Subject Code: 2172003	Date: 26/11/2018
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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.

Q.1	(a)		03
	(b)	with a list of factors of selection of method. Explain the concept of line and end standard in measurement giving	0.4
	(-)	examples.	04
	(c)		07
Q.2	(a)	Explain 'Metal Spinning' with neat sketch.	03
	(b)	What is principle of extreme positions in jigs and fixtures? Explain with	04
		sketch and example.	•
	(c)	Write a short note on 'Gas welding'.	07
		OR	
	(c)	Write a short note on 'submerged arc welding(SAW)'.	07
Q.3	(a)	Explain 'Principle of Extrusion'. Also explain the 'extrusion ratio'.	03
	(b)	Differentiate between embossing and coining.	04
	(c)	What is GFN? Briefly discuss its effects on molding sand properties.	07
0.3		OR	
Q.3	(a)	With neat sketch, discuss the principle of rolling.	03
	(b)	How are welding machines are specified?	04
	(c)	Sketch the cross section of a sand mold which is ready for pouring. Label the various parts of it.	07
Q.4	(a)	How a tube and rod drawing is done? Show sketches.	03
	(b)	Enlist the various allowances provided to the pattern.Briefly explain any	04
	` ,	one.	04
	(c)	How a fizzy drink can is manufactured? Explain each step with sketch.	07
		OR ·	٠,
Q.4	(a)	Briefly discuss 'shrinkage defects' in casting giving reasons and remedy.	03
	(b)	What is an edge preparation for arc welding? Explain.	04
_	(c)	Write a short note on 'Investment Casting' with all the steps in sequence.	07
Q.5	(a)	What are the general design considerations for jigs and fixtures?	03
	(b)	Show how a sine bar is used for angular measurement.	04
	(c)	With neat sketch of set up, write a short note on EDM. Explain the	07
		variation of process parameters.	
<u></u>	, .	OR	
Q.5	(a)	What is 'Taylor's principle' of gauging ? Explain.	03
	(b)	What are the main elements of jigs and fixtures ?Explain any one with	04
		example.	
	(c)	With neat sketch of set up, write a short note on AJM Explain the	07
		variation of process parameters.	
