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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- IV (NEW) EXAMINATION - SUMMER 2015

•		ode: 2143407 Date: 26/05/2015 Name: Mould Manufacturing Technology	
_		.30am-01.00pm Total Marks: 70	
Instr	ructi	ions:	
		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	What are the different non ferrous metallic materials used in Mould making? What are the applications of these materials in mould making?	07
	(b)	What are the different properties of steels required for mould making?	07
Q.2	(a)	What is heat treatment? What are the different types of heat treatment processes used in mould making? Explain about any one process.	07
	(b)	Describe the chemical etching process. OR	07
	(b)	Explain about the different steps involved in polishing of mould parts.	07
Q.3	(a)	Explain the electric discharge machining (EDM) process. What are the applications of EDM in mould making?	07
	(b)	What are the advantages of CNC machines? OR	07
Q.3	(a)	Explain the step by step process in mould assembly.	07
	(b)	What is rapid prototyping? Explain about any one rapid prototyping technique.	07
Q.4	(a)	Write a short note on Vernier caliper and Micrometer.	07
	(b)	What is the importance of height gauge in mould making? What are the different types of dimensions that can be measured on height gauge? OR	07
Q.4	(a)	How to measure the dimensions by using slip gauges? Explain.	07
	(b)	What are the instruments used for measuring tapers? Explain about any one.	07
Q.5	(a)	Describe the procedures for estimating mould costs.	07
	(b)	What is the importance of scheduling mould maintenance? Explain. OR	07
Q.5	(a)	How to repair moulds? Explain about different metal deposition techniques.	07
	(b)	Write a short note on Dial gauges. Mention the applications.	07