Seat No.: \_\_\_\_\_ Enrolment No.\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY BE- V<sup>th</sup> SEMESTER-EXAMINATION - MAY/JUNE - 2012

Subject code: 152501 Date: 0 Subject Name: Casting Technology			e: 01/06/2012
•	Fime: 02:30 pm – 05:00 pm Total N		
Instr			
1.	Atte	empt all questions.	
2.	· · · · · · · · · · · · · · · · · · ·		
3.	Figu	ures to the right indicate full marks.	
Q.1	(a)	Define casting process. Explain the steps involved in making casting with its merits and demerits.	ng <b>07</b>
	<b>(b)</b>	Compare the casting with metal joining and metal removing process	ss. <b>07</b>
Q.2	(a)	Define pattern. Write the advantages and disadvantages of differentypes of pattern materials.	t <b>07</b>
	<b>(b)</b>	Explain the pattern allowances in detail. <b>OR</b>	07
	<b>(b)</b>	Give the different types of patterns. Explain any four with neat ske	tch. <b>07</b>
0.2	(a)	White in detail shout manaries of moulding and	07
Q.3	(a) (b)	Write in detail about properties of moulding sand.  Give the names of moulding sand. Describe any five.  OR	07 07
Q.3	(a)	Define core. Give the classification of cores. Explain with neat ske two types of core boxes.	etch <b>07</b>
	<b>(b)</b>	Write the Need, Areas for Mechanization and Typical Layout for foundry.	07
Q.4	(a)	Classify and explain foundry tools with sketch.	07
	<b>(b)</b>	Write the names of moulds and explain any four. <b>OR</b>	07
Q.4	(a)	Give the names of foundry furnaces. Explain the cupola furnace wi sketch.	ith <b>07</b>
	<b>(b)</b>	Define gate. Explain the gate with its merits and demerits with sket	tch. <b>07</b>
Q.5	(a)	Define the riser. Explain the functions and types of riser with its advantages and disadvantages.	07
	<b>(b)</b>	Explain the fettling processes of casting in detail.	07
0.5	(c)	OR Explain the Investment Casting	07
Q.5	(a) (b)	Explain the Investment Casting Explain the Defects in Casting, its causes and remedies.	
Q.C	(b)	Explain the Defects in Casting, its causes and remedies.	07

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