

GUJARAT TECHNOLOGICAL UNIVERSITY
PDDC SEMESTER V– EXAMINATION – SUMMER 2017

Subject Code: X51902**Date: 02/05/2017****Subject Name: Manufacturing Process-II****Time: 02.30PM to 05.00PM****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)	Explain the steps involved in making of sand mould.	07
	(b)	Explain the importance of major pattern allowances.	07
Q.2	(a)	List the elements of gating system and explain each of them.	07
	(b)	Explain Investment casting process with its advantages and limitations.	07
OR			
	(b)	Explain Die casting process with its advantages and limitations.	07
Q.3	(a)	Explain the break down passes in rolling.	07
	(b)	Explain different sheet metal shearing operations with neat sketches.	07
OR			
Q.3	(a)	Explain the hot and cold extrusion process.	07
	(b)	Explain wire and tube drawing methods.	07
Q.4	(a)	List the arc welding methods and explain the working of any one of them.	07
	(b)	Explain oxy acetylene gas welding process with its advantages, limitations and applications.	07
OR			
Q.4	(a)	Differentiate clearly between GTAW and GMAW.	07
	(b)	Explain the working of laser beam welding with its advantages, limitations and applications.	07
Q.5	(a)	Classify the plastics and state the general properties of plastics.	07
	(b)	Write a note on lapping process.	07
OR			
Q.5	(a)	Explain Injection moulding process with its advantages, limitations and applications.	07
	(b)	Write a note on honing process.	07
