Seat No.:	Enrolment No.
Seat No	Linonnent No.

GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER-V • EXAMINATION – WINTER • 2014

Su	bject	t Code: X51902 Date: 02-12-2014	
Tiı	me: 1	t Name: Manufacturing Process-II 10:30 am - 01:00 pm Total Marks: 70	
Ins	2.	ions: . Attempt all questions Make suitable assumptions wherever necessary Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain the steps involved in sand mould preparation with neat sketch. List the various defects occurred in welding. Explain any three of them.	07 07
Q.2	(a)(b)	Define pattern. List different types of patterns and explain any three of them with neat sketch. Explain importance of allowances in casting. OR	07
	(b)	Explain different types of gating system.	07
Q.3	(a)	Explain importance of flux used in Submerge Arc Welding. Describe working principle of SAW.	07
	(b)	Classify the types of foundry furnaces. Describe cupola furnace with neat sketch. OR	07
Q.3	(a)	Explain the concept of "polarity" in Arc welding and also discuss importance of "current" with reference to Arc welding	07
	(b)	Compare TIG & MIG welding processes.	07
Q.4	(a) (b)	Explain principle and operation of rolling process. Explain laser beam welding process with their advantages, disadvantages and applications.	07 07
		OR	
Q.4	(a) (b)	Discuss various methods of extrusion with neat sketch. With sketch explain different forging operations	07 07
Q.5	(a) (b)	Explain factors affecting the strip layout. Explain Coining and Embossing operations of sheet metal operations. OR	07 07
Q.5	(a) (b)	Describe process of Grinding, Lapping and Burnishing. Explain (i) Difference between thermoplastic and thermosetting. (ii) Process of polymerization.	07 07
