Seat No.:	Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA ENGINEERING – SEMESTER – • EXAMINATION – SUMMER 2013

		Subject Code:2361923 Subject Name: ADVANCE INDUSTRIAL ENGINEERING								Γ	Date: 20/5/2013			
		Time:10:30 Instructions: 1. Attem 2. Make) am - pt any suitabl	- 1:00 j	pm stions. ptions w	herever	· necessa		NEEI	RING	Т	otal M	arks: 7	0
				on is con				2.						
Q.1	(a)	Explain Der	ning's	s 14 poi	nts for o	quality	contro	l imp	orove	ement				7
	(b)	Explain 'Ma	ke or	buy' de	cision f	or proc	cess pla	nnir	ng					7
Q.2	(a)	Explain Juran trilogy										7		
	(b)	Draw and de	escribe	e Ishika	wa's co	mpany	wide q	uali	ty co	ntrol				7
						Ol	R							
Q.2	2 (a) Explain poka yoke method with example									7				
	(b)	b) No. of defects of the samples taken from the products manufactured in an indu- Total 10 samples were taken .Draw P-chart and give your opinion regarding process is under control or not								•				
		No.of Product	200	200	200	200	200	20	00	200	200	200	200	
		Defective Product	12	4	8	3	7	6	5	0	8	5	9	
Q.3	(a)	Explain Qua	ality A	ssuranc	e and it	nd its advantages							7	
		10 random samples were taken from the pins produced on a lathe. The diameters are measured as under .Draw control chart & give opinion regarding process is under												
		control or no		2	1					0	0	10		
	(b)		2 4.9	3 14.8	15.0	5 14.6	5 16		7 15.		8 14.8	9 14.9	10 14.9	7
			4.6	14.9	16.2	15.1		.7	15.		15.4	15.9	16.3	
			5.2	15.2	14.9	15.3		.9	15.		15.2	15.5	14.8	
		14.9	5.1	15.3	14.7	14.8 OI		.1	15.	.1	14.9	14.5	15.3	I
Q.3	(a)	Explain stag	ges of	QFD		OI	N.							7
	(b)	Explain Hor		_										7
Q.4	(a)									7				
	(b)									7				
	(2)	Zapium mie	grace	1110401	01 1 21	OR								
Q.4	(a)								7					
-	(b) Explain In Brief "Just In Time (JIT)" Concept									7				
Q.5	(a)	State Benefi						_						7

	(b)	Explain Seven Problem Solving Tools for Quality Control	7
		OR	
Q.5	(a)	Explain Tools and techniques of reengineering process	7
	(b)	Difference between Quality Control and Inspection	7