Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY ME SEMESTER II EXAMINATION – SUMMER 2017

Subject Code: 2720511 Date: 01/06/			
•	Subject Name: CMOS CIRCUIT DESIGN - I Fime:02:30 PM to 05:00 PM Total Marks: '		
Instru	1. 2.	s: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)		07 07
Q.2	(a)	Describe the concept of static and dynamic CMOS circuit.	07
	(b)	Explain I/V characteristic of MOS. OR	07
	(b)		07
Q.3	(a)	Describe the basic MOS device physics and general consideration of MOS parameters. Describe the basic MOS device physics and general consideration of MOS parameters.	07
	(b)		07
Q.3	(a) (b)	Explain in detail folded cascode amplifier.	07 07
Q.4	(a)	Explain compensation of two stage op amp and also explain other compensation techniques.	07
	(b)	Explain input output characteristic of CS configuration. OR	07
Q.4	(a) (b)	Explain 3 – stage ring oscillator.	07 07
Q.5	(a) (b)	Explain basic differential pair and analysis. Explain the following circuits (Any two) (i) Adder Circuits (ii) Multiplier (iii) Shifter	07 07
0 -		OR	0 7
Q.5	(a) (b)		07 07
