SUB! MEMS (CEUS) EXTC ME-I

Q.P. Code: 30076

				(3 Hours)	Total Marks: 80
N.B:		(1)	Answer any four	questions out of six questi	ons.
		(2)			
		(3)	Figures to the rig	ht indicate full marks.	
1.	(a)		ith the help of neat s	schematic diagram explain in ar inductors.	mportant design
	(b)	N	ith comb structure e	explain working of MEMS a	rea-tunning capacitor.
2.	(a)	D	iscuss design aspec	ts of co-planar transmission	lines.
	(b)			omachining techniques to im-	
3.	(a)	V	What are the types of	phase shifters? Discuss the	ir Limitations.
	(b)	E	xplain functioning of	of Gap-tuning capacitor in ca	ase of electrostatic tuning.
4.	(a)		low beam steering is diator?	s achieved using micromach	nined reconfigurable patch
	(b)	C	live modeling aspec	ts of mechanical filters.	
5.	(a)	V	What are the key para	ameters in the design of Mic	rostrip patch antenna?
	(b)	D	escribe dynamics of	f switching operation.	
6:	Write short notes on the following:-				
		(2	a) Micromachined	lirectional coupler	
		(1	o) Dielectric tunable	e capacitors	
		(De ign issues of	planar inductors	
		1	1) Flectromachanic	al & Flastrostatio relays	