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EX - 405 **B.E. IV Semester**

Examination, June 2013

Electronics devices & Circuits-II Time: Three Hours			
Maxir.	num Marks : 100 Minimum pass Marks:	35	
Note:	Attempt all questions. All questions carry equal marks.	ė	
1, a),	What are the characteristics of an ideal OP-AMP? Explain the working of OP-AMP in inverting and non-inverting made?		
b)	using OP-AMP and find the expression for output voltage		
	OR		
2. a)	What is input/output offset voltage? Explain input offs voltages compensating network in detail?	set 10	
b)	Explain the working of comparator using OP-AM P.	10	
3. a)	Draw the circuit diagram at a monostable multivibratusing 555 timer and find the expression for pulse width		

b) Explain the principle of operation of the 'switched

OR

capacitor filter with the aid of schematic diagram. 10

10

4.	a) Draw and explain IC 555 timer as an astable mult	ivibrator.
	b) Enlist the different application of 555 timer and each with the help of circuit diagram.	4.0
	 a) Explain the working principle of moving coloudspeaker. Also draw the constructional det equivalent circuit. b) Write short note on multi way speaker system. 	ails and 10 10
	Write short note on sound recording system. Explain the operation of crossover network	10
7. a	amplifier by use of its equivalent circuit	nmetric 10 10
8. a)	Discuss the performance of magnetrons and limportant applications.	1.0
9. a)	Compare DTL, ITL, ECL, TTL with their character	
10. a)	Explain rise and fall time in CMOS gates. OR What are the characteristics of logic families? Explain rise and fall time in CMOS gates.	10 ~ plain
b)	Explain TTL with their characteristics. ******	10
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