LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034			
B.Sc. DEGREE EXAMINATION – PHYSICS			
FIFTH SEMESTER – NOVEMBER 2007			
PH 5401 - ELECTRONICS - II		AC 10	
		1	
Date : 01/11/2007 Dept. No. Time : 9:00 - 12:00		Max. : 10	0 Marks
PART A			
Answer all the questions	(10x2	2=20 marks)	
 Give the expression for voltage gain of non-inverting amplifier with feedback What is the disadvantage in parallel A/D converter? What is the advantage of R-2R ladder over weighted resistor D/A converter? What is virtual ground? What is linear and non-linear IC? What is the difference between thick and thin films? In IC terminology what is the meaning of etching When will the parity flag be set? What is the function of the pin ALE? Distinguish between machine language and assembly language PART B Answer any four questions (4X7.5=30 marks) 11 Explain second order high pass and low pass filter 12 With a neat diagram explain R-2R ladder D/A converter 13. Explain the fabrication of integrated components like resistor, capacitor and transistor 14. Write an assembly language program for multiplying two 8-bit numbers			
	PART C		
Answer any four questio	ns (4	x12.5=50 marks)	
 16. Explain the construction and theory of astable multivibrator using op-amp 17. Explain a) parallel A/D converter (6) b) A/D conversion using voltage to frequency converter (6.5) 18. a) Compare bipolar and MOS technology (6.5) b) Explain the fabrication of monolithic IC (6) 19. Write the assembly language program for a. Picking largest number in an array b. Finding square root of a perfect square 20. Explain the architecture of 8085 microprocessor 			
