Reg.No. _____

Karunya UNIVERSITY

(Karunya Institute of Technology & Sciences)
(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

End Semester Examination – Nov/Dec – 2016

Code : 14EC2079
Sub. Name : Microprocessors and Microcontrollers

Semester : 2016-17 ODD
Duration : 3hrs
Max. marks : 100

ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)

Q. No.	Sub Div.	Questions	Course Outcome	Marks
1.	a.	With a neat sketch explain the functional block diagram of 8085	CO1	20
		(OR)		
2.	a.	Write an assembly level program to convert a hexadecimal number to decimal number	CO2	10
	b.	Write an assembly level program to transfer a block of 10 numbers from memory location 4200 to the memory location 4600	CO1	10
3.	a.	Write a assembly level program in 8051 to generate a square waveform of 1kHz and a sawtooth waveform of 50Hz using a crystal frequency of 12MHz	CO3	20
		(OR)		
4.	a.	With examples explain the various Addressing Modes available in 8051. Mention the size of each instruction corresponding to the addressing modes	CO3	20
		(OR)		
6.	a.	Discuss about the interfacing of 8279 keyboard and display interface with microcontroller	CO2	20
		(OR)		
8.	a.	Draw the schematic to connect a 16kB EPROM and 8kB RAM using 8051 Microcontroller and explain the same	C03	20
		Compulsory:		
9.	a.	With relevant diagram explain Stepper motor control using microcontroller	CO3	20

ALL THE BEST