



Reg.No. \_\_\_\_\_

## End Semester Examination – Nov/Dec - 2016

**Code : 09EC233**  
**Sub. Name : Microprocessors and Micro Controllers**  
**Semester : 2016-17 ODD**  
**Duration : 3 hrs**  
**Max. marks : 100**

Q. No.	Questions	Marks
<b>PART-A(10X1=10 MARKS)</b>		
1.	List the flags of 8085 microprocessor.	(1)
2.	Write down the control and status signals of 8085.	(1)
3.	ALE stands for _____	(1)
4.	Why data bus is bidirectional?	(1)
5.	Which mode generates square wave in 8253?	(1)
6.	What is the purpose of 8255 PPI?	(1)
7.	Specify the addressing mode followed in the following instructions: MOV A, R0 and MOV A, @R0	(1)
8.	How many bytes of internal RAM and ROM supported by 8051 micro controller?	(1)
9.	The rate at which serial data transmitted is called _____	(1)
10.	The 8051 has _____ 16-bit counter/timers.	(1)

<b>PART B(5 X 3= 15 MARKS)</b>		
11	Distinguish between microprocessor and microcontroller	(3)
12	Mention briefly the advantages of memory segmentation in 8086.	(3)
13	List the applications of 8253 programmable interval timer.	(3)
14	Write the interrupts of 8051 microcontroller according to its priority.	(3)
15	What are the tasks involved in keyboard interface?	(3)

<b>PART C(5 X 15= 75 MARKS)</b>		
16.	With a neat sketch, explain the architecture of 8085 processor.	15
(OR)		
17.	Draw the timing diagram for the instruction STA, 526AH.	15
18.	Discuss about the various instructions available in 8086 processor with examples	15
(OR)		
19.	Explain the Minimum and Maximum mode operation of 8086 processor	15
20.	With a neat diagram, explain 8279 Programmable Keyboard/display interface.	15
(OR)		
21.	With neat sketch ,explain the operation of 8251- Programmable communication interface	15
22.	a. Outline the features of 8051 microcontroller with a neat block diagram	5
	b. Explain briefly the five addressing modes of 8051 with examples for each.	10
(OR)		
23.	Summarize the different groups of instructions supported by 8051? Explain them with suitable examples	15

24.	a.	Draw Format of timer mode control register TMOD	5
	b.	Describe four modes of operations of Timer of 8051	10
(OR)			
25		Write short notes on	
	a.	Serial Communication	5
	b.	ADC interfacing with 8051	10

ALL THE BEST