Code No: 09A50506

R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD B. Tech III Year I Semester Examinations, November/December-2013 MICROPROCESSORS AND INTERFACING

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

Answer any five questions All questions carry equal marks

1.a) b)	What is the major difference between architecture s of 8085and 8086, Ex Explain the function of DAA and HALT instruction with an example.	plain. [7+8]
2.a) b)	Explain different ways of passing parameters to subroutine. Explain the functions of the following pins. i) MN/\overline{MX} ii) HLDA iii) DT/\overline{R} iv) ALE	[7+8]
3.a)	Show the circuit required to generate the upper and lower I/O strobes in mand maximum modes of 8086.	inimum
b)	Explain the need for DMA and DMA data transfer Method.	[7+8]
4.	How many types of modes of operations are there in 8255 PPI and explain	n them. [15]
5.a) b)	What is the significance of interfacing cascading of interrupt controller? Explain 8259 PIC Architecture in detail.	[7+8]
6.a) b)	Explain the functional pins of RS232C. How to convert RS232C to TTL conversion explain in detail.	[7+8]
7.a) b)	Explain the stack operation in 8051 microcontroller. How many types of addressing modes of 8051 microcontroller.	[7+8]
8.	Discuss in detail Memory and I/O interfacing of 8051.	[15]
