B.Tech. IN - COMPUTER SCIENCE AND ENGINEERING

Term-End Examination December, 2011

BICS-012: MICROPROCESSOR

Time: 3 hours		ours	Maximum Marks : 70	
Note: Attempt any seven questions.				
1.	With the help of a neat diagram, explain the architecture of 8086 microprocessor ?			10
2.	Describe the various types of addressing modes 1 in 8086.			10
3.	(a)	Write a 8086 Program number of even and o given series of 16 - numbers. If memory is having 12 data lines, then find of registers and word length	dd number from a bit hexadecimal 2x5: address lines and 8 out the number of	=10

- 4. (a) Write an 8086 assembly language program to transfer a block of 256 bytes of data from off set 1000 H in DS to offset 2000 H in DS.
 - (b) What do you mean by non-maskable and maskable interrupt? 2x5=10

- 5. (a) Show the bit wise flag register of 8086 and explain the function of each flag with an example. 2x5=10
 - (b) Mention the steps for interrupt handling.
- 6. With neat sketch explain the functional block diagram of 8259 A Programmable interrupt controller.
- Draw and discuss internal architecture of USART 10 8251.
- 8. (a) How many 8259 can be interconnected in cascaded mode? Show their cascading structure. 2x5=10
 - (b) Explain the Automatic EOI and specific rotation in relation to 8259 A.
- 9. Draw the internal architecture of 8255. Also draw the control word format of BSR mode.
- 10. Write short notes on any two: 2x5=10
 - (a) Pentium Processor.
 - (b) Physical and virtual memory.
 - (c) Comparison between 8086 and 8088.