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Reg. No. : .....

Name : .....

Sixth Semester B.Tech. Degree Examination, May 2016
(2008 Scheme)
Branch : Electrical and Electronics
08.602 : MICROPROCESSORS AND APPLICATIONS

Time : 3 Hours Max. Marks : 100

PART – A

Answer **all** questions. **Each** question carries **4** marks.

1. Explain the register structure of 8085.
2. Explain the requirement of program counter, stack pointer and status flags in 8085.
3. Explain subroutine CALL and RET instructions in 8085.
4. Explain the common debugging methods.
5. How is memory interfacing done in 8085 ?
6. Explain the generation of control signals for memory and I/O devices in 8085.
7. Explain DMA data transfer scheme in 8085.
8. Explain the process of pipelining in 8086.
9. Explain the signals in 8086 specific for maximum mode.
10. Explain with examples string instructions of 8086.

P.T.O.

PART – B

Module – I

11. Draw and explain the internal architecture of 8085. **20**

OR

12. a) Draw the timing diagram of opcode fetch cycle of 8085. **10**

    b) Write an 8085 ALP to sort an array in ascending order and descending order. **10**

Module – II

13. Explain the modes of operation of PPI 8255. **20**

OR

14. Explain interrupt structure of 8085 and interrupt driven data transfer. **20**

Module – III

15. Explain with timing diagram the minimum and maximum modes of operation of 8086. **20**

OR

16. Explain the assembler directives for 8086 microprocessor. **20**
