



M 26235

Reg. No. :

Name :

**V Semester B.Tech. Degree (Reg./Sup./Imp. – Including Part Time)
Examination, November 2014
(2007 Admn. Onwards)
PT2K6/2K6EC/AEI 506 : MICROPROCESSORS AND
MICROCONTROLLERS**

Time : 3 Hours

Max. Marks : 100

Instructions : Assume the suitable data if any missing. All questions have to be answered.

- I. 1) Describe the different conditional flags used in 8086. 5
- 2) What does the following mnemonic imply ? 5
 - 1) AAA
 - 2) SBB
 - 3) JNO
 - 4) JCXZ
 - 5) TEST.
- 3) Describe the two basic types of serial communication. 5
- 4) Write the format of control and status registers for 8254 counter. 5
- 5) What are the functions of the paging unit of 80386 ? 5
- 6) What are the segment registers of 80386 ? 5
- 7) Write the configuration on of TCON register in 8051. 5
- 8) Write the function of OF (overflow flag) in 8051. 5

II. A) Write a note on the software model of 8086. 15

OR

B) A block of 10 bytes of data are stored in memory. Write a program in assembly language to arrange these data in ascending order. 15

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- III. A) With a block diagram, explain the configuration of 8257. 15
- OR
- B) Write an assembly language program to display `EC 50 1` statically. 15
- IV. A) Give a brief description of the software models of 80386. 15
- OR
- B) With a functional block diagram, explain the configuration on of 80586. 15
- V. A) Briefly describe the different addressing modes used in 8051. 15
- OR
- B) Write a program with proper syntax to initialize the serial port in mode 2 in 8051. 15
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