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## B.Tech. Degree V Semester (Supplementary) Examination, July 2009

## EC/EB 503 ADVANCED MICROPROCESSORS AND MICRO CONTROLLERS

(2002 Scheme)

Time: 3 Hours	Maximum Mark	s: 100
I a) b)	Explain the architecture of Intel 8086 with necessary block diagram.  Explain different registers in 8086.	(15) (5)
II a)	OR Explain different addressing modes in 8086 with suitable examples. Explain minimum mode and maximum mode in 8086 with necessary diagrams.	(10) (10)
III a) b)	Explain different program development tools in detail. Explain BIOS function calls.	(15) (5)
IV a) b)	OR Explain instruction set of 8086 with suitable examples. Explain DOS function calls.	(15) (5)
V a) b)	Explain with block diagram, the architecture of Intel 80386.  Explain register organization of 80386.  OR	(15) (5)
VI a) b)	Explain real, protected and virtual modes in 80386. Compare 80386 and 80486.	(15) (5)
VII a) b)	Compare Pentium and Pentium Pro architecture.  Explain  i) Branch Prediction  ii) Super scalar architecture	(6) (7)
VIII a) b)	OR  Explain RISC architecture. Compare RISC and CISC.	(7) (12) (8)
IX a) b)	Explain the architecture of 8051 micro controller. Explain RS 232 serial communication standard.	(15) (5)
X a) b)	OR Explain different addressing modes in 8051. With suitable diagrams explain interfacing of stepper motor with micro controller.	(10) (10)



