

Roll No.

22142

**M. E. 1st Semester (Electronics &
Communication Engg.)**

Examination – January, 2012

**ADVANCED MICROPROCESSOR & MICRO
CONTROLLERS**

Paper : MEEC-501

Time : Three hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any *five* questions. All questions carry equal marks.

1. (a) Discuss in brief about evolution of microprocessor. 6
- (b) Draw and explain pin diagram of 8259. 14
2. Explain the following terms : 5 × 4
 - (a) ALU,
 - (b) General Purpose Registers,
 - (c) Device Polling,
 - (d) Addressing Modes.

3. (a) Draw and explain architectural block diagram of 8051. 14
 (b) Write in brief about interrupt system of 8051. 6
4. For 68XXX series of micro processor, discuss : 10, 10
 (a) Addressing Modes,
 (b) Hardware.
5. For Intel 80286, discuss : 5, 5, 10
 (a) Flag Register,
 (b) PVAM,
 (c) Architecture.
6. (a) Draw and explain pin diagram of 80186. 14
 (b) Discuss in brief about descriptors. 6
7. (a) Explain the following terms :
 (i) Developing and implementing a design, 5
 (ii) Assembler directives. 8
 (b) Write an ALP using 8086 to display a string with use of MACROS. 7
8. Write short notes on : 8, 8, 6
 (a) VART,
 (b) ADcs,
 (c) Design tool for micro processor development.