Total No. of Questions : 8]   [Total No. of Printed Pages : 2

Roll No ....

EI/IC-703 (Old) (GS)
B.E. VII Semester
Examination, December 2017
Grading System (GS)
Advanced Microprocessor and Microcontroller

Time : Three Hours

Maximum Marks : 70

Note: i)   Answer any five questions.

ii) All questions carry equal marks.

1. a)   Discuss the architecture of 8086 microprocessor.

b)   Classify the instruction set of 8086 processor.

2. a)   Discuss the salient features of 80286 and 80386.

b)   Explain the architecture of 8087.

3. Explain the architecture of 8 bit 8051 microcontroller.

4. a)   Discuss about interrupt programming in 8051 microcontroller.

b)   Discuss about ADC and DAC.

5. a)   Give an overview of 16 bit 8096 microcontroller architecture.

b)   Discuss about RISC and CISC architecture. Also explain Harvard Princeton architecture.

6. Explain the architecture of ARM-32-Bit microcontroller.

7. Explain the different bus configuration of:

a)   RS-232

b)   UART

c)   GPIB

d)   RS485

8. Write short notes on any two of the following:-

a)   I/O Processor (8089)

b)   Stepper motors and sensors

c)   USB, I2C

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