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EX-502 (GS)

B.E. V Semester

Examination, December 2017

Grading System (GS)

Microprocessor and Microcontroller

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

ii) Each question carries equal marks.

ii) Each question carries equal marks.

1. a) Explain the salient features of 8086, 80286 and 80386. 7
b) Draw the pin diagram of 8086 CPU with its control signals.

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2. a) Explain the instruction set of 8086 microprocessor. 7
b) Discuss the various addressing modes of 8086

microprocessor. 7

3. a) Draw the block diagram of 8257 DMA controller and

explain its operations.

 b) Draw the block diagram and explain the operations of 8255 parallel communication interface.

 a) Explain about I/O Interfacing and memory interfacing with 8086.

b) With neat block diagram explain the functions of 8251. 7

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With neat block diagram explain PPI. With example explain the different instruction set of 8051 microcontroller. Write an 8051 ALP to run the stepper motor in both forward and reverse direction with delay. Write notes on 8051 serial port programming. Draw and explain the ADC interfacing using 8051. Explain the data types and assembler directives of 8051. Define interrupt and their two classes? Write in detail about interrupt service routine? Explain Data transfer, arithmetic and branch instructions?

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