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ELH 403

First Semester M.Sc. Degree Examination, Dec. 2018/Jan. 2019
ELECTRONICS
(Microprocessor and Microcontrollers)

Time : 3 Hours

Max. Marks : 70

PART – A

Note : Answer **all** questions.

(2×5=10)

1. a) How to set 8051 in power down mode ?
- b) List the mode of operation in 8086.
- c) Write some example of advanced processor.
- d) What is the need for LOCK SIGNAL ?
- e) How DMA operation is performed in 8086 ?

PART – B

Note : Answer the following :

(20×3=60)

2. a) Explain the working of 8086 with a neat architecture. **10**
- b) Write a program to convert Binary to BCD using 8086 processor. **10**

OR

3. a) Explain stack and PSW register with example in 8086. **10**
- b) Explain loop and call instruction with an example in 8086. **10**
4. a) Explain with internal architecture of 80286/80386. **10**
- b) Explain memory management concept virtual memory and segmentation scheme. **10**

OR

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- 5. a) Describe the interrupts of 8086 and its types. **10**
 - b) Write a program to display HAPPY after every 2 sec using 8086 and LED display. **10**

 - 6. a) Describe the ports with circuits in 8051. **10**
 - b) Interface ADC converter with 8051 microcontroller and show its operation. **10**

 - OR

 - 7. a) Describe the architecture of 8051 in detail. **10**
 - b) Write a program to generate a square waveform using 8051 controller. **10**
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