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1477

Reg. No. : .....

Name : .....

**Sixth Semester B.Tech. Degree Examination, May 2012**  
**(2008 Scheme)**  
**Branch : Electrical and Electronics**  
**08.602 : MICROPROCESSORS AND APPLICATIONS (E)**

Time : 3 Hours

Max. Marks : 100

**PART – A**

Answer **all** questions. **Each** question carries **4** marks.

1. Explain instruction pointer and stack pointer in 8085.
2. How are control signals generated in 8085 and what is their role ?
3. Discuss fetch operation and execution operation of 8085.
4. Differentiate between linker, loader, debugger and assembler.
5. Explain asynchronous data transfer.
6. Explain interfacing of LEDs with 8085.
7. What are the different operating modes of 8255 ?
8. Explain intra segment and inter segment CALL instructions of 8086.
9. Explain the process of physical address generation in 8086.
10. Discuss the steps involved in the execution of an 8086 instruction.

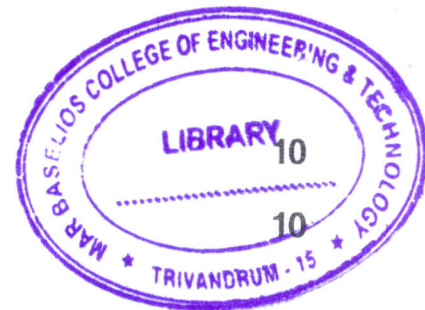
**PART – B**

**Module – I**

11. a) Write an 8085 ALP to convert a binary number to BCD.  
b) Explain the addressing modes of 8085.

**OR**

12. Draw and explain the timing diagram of a three byte instruction.



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**Module – II**

13. Explain the interfacing of ADC with microprocessor. 20  
OR
14. Explain I/O and memory interfacing in 8085. 20

**Module – III**

15. Explain the addressing modes of 8086. 20  
OR
16. a) What is segmentation in 8086 ? What are its advantages ? 10  
b) Write an 8086 ALP to multiply two 16 bit numbers. 10
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