

Roll No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**B.E / B.Tech (Full- Time) DEGREE END SEMESTER EXAMINATIONS, APRIL / MAY 2014**  
**PRINTING TECHNOLOGY BRANCH**  
**FOURTH SEMESTER**  
**PT283 MICROPROCESSOR AND APPLICATIONS**  
**(REGULATIONS 2004)**

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

**PART-A (10 x 2 = 20 Marks)**

1. What is program counter?
2. State the functions of ALU.
3. Why do we need Set Interrupt Mask?
4. Write a function of DAA.
5. Define: AC-Auxiliary Carry.
6. What is T-state?
7. Write down the advantage of DMA.
8. Mention the purpose of Lower Order Address/Data Bus.
9. List the types of ROM.
10. What are the types of interfacing?

**Part – B ( 5 x 16 = 80 marks)**

11. Explain the Internal Architecture of 8085 Microprocessor with a block diagram.
12. a) Explain the any six data transfer instructions in detail.  

**OR**

b) Describe the different logic and branch operation in detail.
13. a) Using a neat diagram explain the 8085 timing diagram for Opcode fetch cycle for MOV C, A.  

**OR**

b) Explain the following.  
i. Addressing mode (8) ii. Instruction cycle (8)
14. a) Write a short note on following.  
i. 8085 interrupts (8) ii. Interfacing output displays (8)  

**OR**

b) Describe the interrupts of D/A and A/D converters in detail
15. a) With a clear diagram explain the algorithm and program for triangular wave form generation  

**OR**

b) Explain the algorithm of any two applications of microprocessor