

**Dr. Babasaheb Ambedkar Open University**  
**Term End Examination July-2016**

**Course : BCA**

**Subject Code : BCA – 304**

**Subject : System Programming &  
Introduction to Microprocessor**

**Total Marks : 70**

**Duration : 03 hours**

**Date :**

**Time :**

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**Section A**

**Attempt any Three of the following:**

**(30)**

1. List out Addressing Mode and explain in brief.
2. Draw Architecture of 8085 and explain in brief.
3. Explain MACRO & MACROPROCESSOR
4. Draw and explain Bus System Architecture.
5. List out example of secondary Storage Device and explain any one.

**Section B**

**Write short notes on any four.**

**(20)**

1. Explain types of Programming Languages.
2. Write a short note on DMA.
3. Explain Architecture about 8086 Micro Processor
4. Draw and explain Timing Cycle for MOV C,A instruction.
5. Write a short note on Loader
6. Explain PROM, EPROM and EEPROM

**Section C**

**(A) Multiple Choice Questions.**

**(10)**

- 1 Which is not an example of system program?  
a. Operating systems                      c. Compilers  
b. MS Office                                  d. Interpreters
- 2 Which is not part of Operating System Services?  
a. Error Handling                              c. Program Executive  
b. File System Manipulation              d. Program deletion
- 3 In 8085, the possible word format is:  
a. 256    c. 512  
b. 128    d. none
- 4 The assembly language of 8085 contains \_\_\_\_\_ instructions with \_\_\_\_\_ bit pattern.  
a. 74, 246    c. 74, 74  
b. 246, 74    d. 246, 246
- 5 Which is not a part of microprocessor?  
a. (ALU)    c. Control units  
b. Registers    d. Memory

- 6 The address bus is \_\_\_\_\_ unidirectional bus  
a. 16-bit c. 32-bit  
b. 8-bit d. 64-bit
- 7 Which is not an 8085 interrupt?  
a. RST 7.5 c. RST 5.5  
b. RST 6.5 d. RST 4.5
- 8 Which instruction is used copy contents of source register to destination register?  
a. MOV Rd, Rs c. OUT 8 bit  
b. MVI Rd, 8 bit d. IN 8 bit
- 9 In Diode ROM \_\_\_\_\_ is used to store a bit.  
a. RAM c. Memory  
b. Diode d. none
- 10 Secondary Storage Devices are:  
a. Hard Disk c. CD ROM  
b. Floppy Disk d. All of above

**(B) True or False.**

**(10)**

1. The stack is a data storage area in RAM used by certain microprocessor operations.
  2. Programs written for the 8080A must have slight modifications to run on the 8085A.
  3. I/O-mapped systems identify their input and output devices by giving them an 8-bit port number.
  4. The software used to drive a microprocessor-based system is called FORTRAN.
  5. A microcontroller integrates multichip systems with RAM, ROM, and I/O.
  6. Assembly language is written using mnemonics: MVI, DCR, JZ.
  7. LDA addr and STA addr are Fortran language instructions stored in an external memory IC for a microprocessor.
  8. It takes two memory locations (16 bits each) to store an address in the 8085 system.
  9. The language understood by the microprocessor is called assembly language.
  10. The control bus and memories share a bidirectional bus in a typical microprocessor system.
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