Half Yearly Examination 2020-21
BSc 3rd Year (Computer Science)
Hadware
Paper First

Max.M.= 50

Note:- Attempt any two questions in each section. Each question has equal marks.

Section I

1. Write shorts notes **any two** of the following:

   a) Direct memory access(DMA)

   b) Input/output techniques

   c) Basic components of micro computers

2. Describe any four data addressing modes of 8088 microprocessor

3. Explain the register organization of the 8088 CPU with the help of diagram.

Section II

1. Give brief description of hardware interrupt vectoring in mother board.

2. Explain the keyboard and its interface to the PC also explain System timers and counter

3. Write shorts notes **any two** of the following:

   a) Video control through ROM-BIOS.   b) PC bus slots and feature cards

   c) Direct video control   d) Video display adapters

Section III

1. What are the functions of EXEC loader? Explain PSP in brief.

2. Write shorts notes **any two** of the following:

   a) The DOS function through INT 21H.

   b) Explain device handling by DOS.

   c) ROM-BIOS serial port services INT 14H.

   d) File structure of DOS.

3. Describe ROM BIOS diskette service INT 13H in brief.

Section IV

1. Compare memory mapped I/O and I/O mapped I/O.

2. Explain monochrome and color monitor.

3. Write short note on hardware interrupts vectoring.

Section V

1. Describe various types of interrupts in PC

2. Differentiate between program memory and data memory.

3. Explain the various components of the motherboard with suitable example

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