**COMPUTER FUNDAMENTALS**

Section A:

Set-1

1. What is computer? Define analog, digital & hybrid computer? 4
2. Discuss mainframe & super computer, with application. 3
3. What is computer generation? Mention different generation name with their used

Technologies. 2.75

1. Discuss different types of digital computer with their applications. 4
2. Drew the block diagram of digital computer & discuss how a program is executed by it. 3
3. Drew the block diagram of the internal structure of a CPU & write it’s functions. 4
4. What are the basic components of a computer system? Briefly discuss each components. 3.75
5. Write down your idea about the specification of a high configuration personal computer. 2
6. What is CPU? 1

Set-2

1. Drew & discuss the data-write mechanism of 64x4 RAM? 3.5
2. Define computer memory. Suppose your computer has 2MB cache, 4MB RAM & 500 GB

Hard drive. Explain your idea behind having 3 different types of memory instead of having

Just one. 3

1. Why is RAM called primary memory & volatile memory? 2
2. Drew the architecture of a 64x4 RAM & discuss data-Read-Write mechanism. 4
3. What is BIOS & Flash memory? 1.75
4. Describe two main parts of the CPU & explain how they work together. 4
5. Difference between RAM & ROM. 2
6. Describe three hardware factors that effect processing speed. 2.75
7. What is cache memory? Discuss why is it essential in a computer system. 3.75
8. Define resolution & refresh rate of a monitor with example. 2

Set-3

1. Discuss the data read read write mechanism of a hard disk drive. 4.75

OR,

Discuss the function mechanism of a hard disk drive during data & write operation. 4

1. Discuss the printing mechanism of a leaser printer. 4
2. Discuss how data is read a CD. 4
3. Explain whether the touchscreen of a table PC is an input or output device. 2.75
4. What happens when you press a key on your computer keyboard? 2
5. What is computer memory? How is it measured? 2
6. Difference between magnetic tapes & magnetic disk? 2.75
7. Define:-

(Latency; Seek time; Transfer rate; Access time)