**SESSION SEPTEMBER 2023**

**PROGRAM MASTER OF COMPUTER APPLICATION (MCA)**

**SEMESTER I**

**COURSE CODE & NAME DCA6101 – FUNDAMENTALS OF COMPUTER & IT**

**1. Explain the key characteristics of each generation of computers.**

**Answer:**

The history of computer development is frequently stated to in reference to the different generations of computing devices. A generation refers to the state of improvement in the product development process. This term is also used in the different advancements of new computer technology. With each new generation, the circuitry has gotten smaller and more advanced than the previous Its Half solved only

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**2. Discuss the important features of micro, mini, mainframes and supercomputers.**

**Answer:**

Microcomputers, minicomputers, mainframes, and supercomputers are different categories of computers that vary in terms of size, processing power, and intended use. Here are the important features of each:

**3. Elaborate on various external memory devices being used to store memory with appropriate examples.**

**Answer:**

External memory devices are auxiliary storage devices that provide additional storage space for computers and other digital devices. These devices are essential for storing data and files that exceed the internal storage capacity of a device. Here are various types of external memory devices with examples:

1. **Hard Disk**

**SET-II**

**1. Briefly explain the software development process.**

**Answer:**

The software development process is a structured set of activities that lead to the creation of a software product. While specific methodologies and practices can vary, the general software development life cycle typically includes the following phases:

1. **Requirements Gathering:**
   * Identify and document the needs and expectations of the end-users and stakeholders.
   * Define the

**2. Enlist the main functions of the operating system.**

**Answer:**

An operating system (OS) is a crucial software component that serves as an intermediary between computer hardware and user applications. It provides a set of essential functions to manage and control computer resources efficiently. The main functions of an operating system include:

1. **Process Management**

**3. Discuss the TCP/IP protocol layers with the help of a diagram.**

**Answer:**

The TCP/IP protocol suite is a set of communication protocols that are widely used on the Internet and form the basis of network communication. The suite is named after its two most important protocols: Transmission Control Protocol (TCP) and Internet Protocol (IP). The TCP/IP protocol stack is divided into four layers, each serving specific functions. These layers, from the bottom to the top, are:

1. **Link**