CS101 updated VU Midterm Past Paper Long Questions From 2020 to date Created by APEX Team

Question 1: Why is hexadecimal notation used in computer systems?

Answer: Hexadecimal notation is used in computer systems to simplify the representation of long bit patterns. It takes advantage of the fact that bit patterns within a machine tend to have lengths in multiples of four, allowing a single symbol to represent a pattern of four bits. This simplification makes it easier for humans to comprehend and work with binary data.

Question 2: What is the purpose of a computer's main memory?

Answer: The purpose of a computer's main memory is to store data in binary form. It consists of circuits, such as flip-flops, capable of storing individual bits. Main memory, often referred to as RAM (Random Access Memory), allows for the independent access of cells, enabling quick retrieval and manipulation of data.

Question 3: How does zoned-bit recording work in mass storage systems?

Answer: Zoned-bit recording in mass storage systems involves dividing adjacent tracks into zones, with each zone containing an equal number of sectors. This organization ensures that all tracks within a zone have an equal number of sectors, optimizing data storage and retrieval. Zoned-bit recording helps improve data access and organization on storage devices like magnetic disks.

Question 4: What is the advantage of optical systems like CDs for data storage?

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Answer: Optical systems like CDs offer an advantage for long continuous strings of data storage. They use lasers to detect irregularities on the reflective surface of the disk, allowing for precise data retrieval. CDs store data on a single-track spiral, making them well-suited for continuous data. However, CDs are not individually accessible like magnetic systems, which makes data retrieval faster in optical systems for continuous data but slower for random access.

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