42 Lecture - CS302

Important Mcqs

1. **Which of the following is a characteristic of flash memory?**
   A) Volatile memory
   B) Slow access times
   C) Low power consumption
   D) Mechanical moving parts
   Answer: C

   What is the primary advantage of a flash memory array compared to a hard disk drive?
   A) Faster access times
   B) Larger storage capacity
   C) More reliable
   D) Lower cost
   Answer: A

   Which type of memory cell is used in a flash memory array?
   A) SRAM
   B) DRAM
   C) EEPROM
   D) ROM
   Answer: C

   What is the process of programming a flash memory cell called?
   A) Write
   B) Read
   C) Erase
   D) Refresh
   Answer: A

   Which of the following is a disadvantage of a flash memory array?
   A) Limited write cycles
   B) High power consumption
   C) Slow access times
   D) Low storage density
   Answer: A

   What is the term used to describe the number of bits that can be stored in a single flash memory cell?
   A) Memory capacity
   B) Memory density
   C) Memory bandwidth
   D) Memory access time
   Answer: B

   Which of the following is a common application of a flash memory array?
   A) Mainframe computer

B) Smartphones
C) CRT monitor
D) Magnetic tape drive
<mark>Answer: B</mark>

What is the process of erasing a flash memory cell called?
A) Write
B) Read
C) Erase
D) Refresh
<mark>Answer: C</mark>

Which of the following is a factor that affects the lifespan of a flash memory array?
A) Temperature
B) Humidity
C) Magnetic fields
D) Pressure
<mark>Answer: A</mark>

How does wear leveling help to extend the lifespan of a flash memory array?
A) It reduces the number of write cycles to each memory cell.
B) It increases the number of write cycles to each memory cell.
C) It reduces the time required to erase a memory cell.
D) It increases the storage capacity of the memory array.
<mark>Answer: A</mark>