

32 Lecture - CS501

Important Mcqs

1. **What is the capacity of a standard 3.5-inch floppy disk?**

- a) 1.44 MB
- b) 2.88 MB
- c) 720 KB
- d) 1.2 MB

Answer: a) 1.44 MB

Which type of magnetic disk is used in laptops and portable devices?

- a) Hard disk drive
- b) Floppy disk drive
- c) Zip disk drive
- d) Solid-state drive

Answer: d) Solid-state drive

What is the rotational speed of a standard desktop hard disk drive?

- a) 5400 RPM
- b) 7200 RPM
- c) 10,000 RPM
- d) 15,000 RPM

Answer: b) 7200 RPM

Which of the following is not a component of a magnetic disk drive?

- a) Disk platters
- b) Actuator arm
- c) CPU
- d) Read/write heads

Answer: c) CPU

What is the average seek time for a standard desktop hard disk drive?

- a) 5 ms
- b) 10 ms
- c) 15 ms
- d) 20 ms

Answer: b) 10 ms

Which type of magnetic disk drive has the highest storage capacity?

- a) Floppy disk drive
- b) Zip disk drive
- c) Hard disk drive
- d) Solid-state drive

Answer: c) Hard disk drive

Which of the following is not a disadvantage of magnetic disk drives?

- a) Prone to mechanical failure

- b) Sensitive to external factors like magnetic fields
- c) Slow access times
- d) High cost per GB of storage

Answer: d) High cost per GB of storage

Which technology is used to increase the storage capacity of magnetic disk drives?

- a) Disk compression
- b) RAID
- c) Disk partitioning
- d) Disk spanning

Answer: b) RAID

What is the maximum transfer rate for a standard SATA hard disk drive?

- a) 3 Gb/s
- b) 6 Gb/s
- c) 12 Gb/s
- d) 24 Gb/s

Answer: b) 6 Gb/s

What is the main advantage of solid-state drives over magnetic disk drives?

- a) Higher storage capacity
- b) Lower cost
- c) Faster access times
- d) More durable

Answer: c) Faster access times