

Quiz 03 – Chapter 03 – Storage**[50 Marks, 50 Minutes]****Name:** _____**Roll No:** _____**Question 1: [1x12 marks] [estimated time 12 minutes]**
Supply the missing words to complete the statements.

1. A storage _____ is the hardware where data is actually stored. (Device / Medium)
2. Conventional RAM is _____ so programs and documents held in RAM are erased when they are no longer needed by the computer or when the power to the computer is turned off.
3. Random access, also called _____, means that data can be retrieved directly from any location on the storage medium, in any order.
4. Storage devices used like hard drives, CD/DVD drives, and USB flash drives are _____ devices. (Random Access / Sequential Access)
5. A newer type of hard drive is the _____ that uses flash memory technology instead of magnetic technology to store data.
6. Read/write heads the magnetize particles to store, retrieve and access data are present in _____ drives.
7. _____ is concentric path on a disk where data is recorded. (Track / Register)
8. _____ is a type of storage medium read from and written to using a laser beam.
9. Storage capacity of CD and DVD is _____ and _____ respectively. (25GB/5GB, 7GB/4GB, 700MB/4.7GB, 8.5GB/700MB).
10. NAS and SAN stand for _____.
11. _____ is a method of storing data on two or more hard drives that work together. Although it can be used to increase performance, it is most often used to protect critical data on a large storage system.
12. _____ refers to using a storage device that is accessed via the Internet.

Question 2: [1x5 marks] [estimated time 3 minutes]
Write the following storage capacities (700MB, 4.7GB, 8.5 GB, 25 GB, 50 GB, 100 GB) on right places.

- a) CD _____.
- b) DVD _____.
- c) BD _____.
- d) DVD-DL _____.
- e) BD-DL _____.

Question 3: [1x8 marks] [estimated time 8 minutes]
Circle T if the statement is true and F otherwise.

1. **T F** A computer system with a C drive and a D drive must have two physical hard drives
2. **T F** A hybrid hard drive contains both magnetic hard disks and optical discs.
3. **T F** A DVD-RW disc can be written to and rewritten to.
4. **T F** Secure Digital (SD) cards are one type of magnetic storage medium.
5. **T F** Media that allow random access are sometimes referred to as addressable media.
6. **T F** Hard drive has separate storage medium and storage device.
7. **T F** Holographic storage is emerging type of 2D storage technology.
8. **T F** The tiny depressions, dark areas, or otherwise altered spots on an optical disc that are used to represent data are called track.

Question 4: [5x5 marks] [estimated time 25 minutes]

Give Short answers to the followings

1. Write comparison of SSD with HDD?

2. List two possible advantages and two possible disadvantages for using cloud storage?

3. Differentiate Disk stripping and mirroring in RAID?

5. What are the three steps that hard disk takes for a hard drive to read or write data? (Steps of disk access time)

4. Which types of storage media would be appropriate for someone who needed to exchange large (5 MB to 75 MB) files with another person? List at least three different types, stating why each might be the most appropriate under specific conditions?
