SAN SIMPQB- 18 SCHEME

BY TIE REVIEW TEAM

Average time to be spent per module- 60 Mins

Module-1

1. Explain the evolution of Storage Architecture.
2. show the core elements and key characteristics of the Data Center with a neat diagram 3. Explain the various factors of Disk Drive Performance.
Disk Service Time: Seek Time, Rotational Latency, Data Transfer Rate
Disk I/O Controller Utilization
4. Explain the components of Disk Drive
Platter, Spindle, Read/Write Head, Actuator Arm Assembly, Drive Controller Board, Physical Disk Structure
5. Illustrate the popular interface protocols used between the host and storage communication

Module-2

1. Explain the components and Types of Intelligent Storage Systems
2. Explain read and write cache operation with a diagram
3. Explain the RAID techniques with suitable diagrams
   Striping, Mirroring, Parity with diagrams
4. List out Comparisons between different RAID levels
5. Differentiate between RAID 5, RAID 6, RAID 0 + 1, RAID 1+0 WRT reading performance, write performance and protection.
6. Explain the components of Fibre Channel SAN
   Node Ports, Cables and Connectors, Interconnect Devices, SAN Management Software

Module-3

1. Define NAS. List the benefits of NAS. Explain different NAS implementations in detail.
2. Discuss the factors affecting NAS performance and Explain the components of NAS
3. Define iSCSI and its components
4. Explain iSCSI Protocol Stack and iSCSI PDU

5. Compare general-purpose servers with NAS Devices with an illustration
6. Discuss NAS File sharing protocols
7. Define FCIP, Explain FCIP Protocol Stack

Module-4

1. Explain Backup architecture with backup and restore operations
2. Discuss different backup Topologies.
3. Explain BC Terminology in detail
4. Explain fault tolerance mechanisms OR Failure Analysis
5. What is Business Continuity? Explain BC Planning Life Cycle with a neat diagram.

Module-5

1. Write a note on risk trade. Explain in detail.
2. Write short notes on Kerberos and the authentication process in Kerberos
3. Explain Storage array-based local replication with a diagram
4. Explain Local replication Technologies and their uses
5. Explain different modes of remote replication and remote replication Technologies 6. Explain Security threats in application access domains and Explain Security implementation in Storage Networking