

## **SAN Question Bank**

### **MODULE 1**

1. Explain the evolution of storage technology.
2. Explain the architecture and evolution of storage technology.
3. Define data center. Explain the core elements of data center.
4. Discuss the key characteristics of a data center, with a neat diagram.
5. What is a data center? Explain key characteristics of data center elements.
6. Discuss the tasks of key management activities.
7. Write short notes on i) Virtualization ii) Cloud Computing.
8. Discuss various software components that are essential parts of a host system.
9. Discuss file system and the process of mapping user files to disk storage.
10. Define Connectivity. Discuss the physical components of connectivity.
11. Discuss the interface protocols used for host to storage communication.
12. Write a short note on storage.
13. Discuss volume manager and compute virtualization in detail
14. Briefly Explain Disk Drive Components
15. Write a note on disk drive performance
16. What is DAS? Explain its benefits and Limitations.

### **MODULE 4**

1. What is business Continuity? Explain BC planning life cycle with a neat diagram.
2. What is information availability? Explain how information availability is defined and measured.
3. Explain the causes of information unavailability and the consequences of downtime?
4. Explain the BC terminologies in detail.
5. Explain in brief BC technology solutions.
6. Define the following terminologies:  
(i) MTBF (ii) RPO (iii) MTTR (iv) RTO
7. Describe the failure analysis in BC.
8. A system has three components and requires all three to be operational for 24 hours from Monday to Friday. Failure of component 1 occurs as follows:
  - Monday = No failure
  - Tuesday = 5 am to 7 am
  - Wednesday = No failure
  - Thursday = 4 pm to 8 pm
  - Friday = 8 am to 11 amCalculate the MTBF and MTTR of component 1.
9. A system has three components and requires all three to be operational from 8 am to 5 pm

business hours, Monday to Friday. Failure of component 2 occurs as follows:

- Monday = 8 am to 11 am
- Tuesday = No failure
- Wednesday = 4 pm to 7 pm
- Thursday = 5 pm to 8 pm
- Friday = 1 pm to 2 pm

Calculate the availability of component 2.

10. Explain the reasons for which backup is performed.
11. With a neat diagram, explain the steps involved in backup and restore operation.
12. Briefly explain the different backup granularity levels?
13. Briefly explain different backup methods.
14. Explain the backup architecture?
15. Explain backup topologies in detail.
16. Briefly explain the concept of backup in NAS Environments.

17. Explain the reasons for which backup is performed.