

- N.B.: 1) Que. No.1 is compulsory.
2) Solve any four questions from remaining 6 questions.
3) Assume suitable data wherever necessary.

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- Q1.a) What are the various features and benefits of CAS. (20)
b) What are the benefits of information life cycle management?
c) Explain in brief four primary services of security.
d) Explain how performance of NAS can be affected if the TCP window size at the sender and at the receiver are not synchronized.
- Q2.a) What is the difference between general purpose servers and NAS devices? Give in brief various benefits that NAS offers. (10)
b) Explain SCSI-3 client server model along-with SCSI communication model. (10)
- Q3.a) Discuss the impact of RAID on disk performance related to IOPS. Explain with example. (10)
b) Explain synchronous and asynchronous replication mode along-with network bandwidth requirement. (10)
- Q4.a) Explain SCSI command model in detail. (10)
b) Explain FC-AL (arbitration loop) connectivity and hence describe how data transmission in FC-AL takes place. (10)
- Q5.a) Explain FC protocol stack. (10)
b) Explain backup and restore process in detail. (10)
- Q6.a) Discuss the various factors that affects the NAS performance and availability. (10)
b) Explain how failure analysis is done at the data center and how fault tolerance mechanisms are implemented. (10)
- Q7. Write short notes on the following (any four): (20)
a) Storage virtualization challenges.
b) BC planning life cycle.
c) LUN and LUN masking.
d) Local replication technology.
e) Monitoring storage infrastructure.