

CRASH COURSE

USN

--	--	--	--	--	--	--	--	--	--

10CS/IS765

Seventh Semester B.E. Degree Examination, May 2017 Storage Area Networks

Time: 3 hrs.

Max. Marks: 100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

PART – A

- 1 a. What is Information lifecycle management? Explain in detail regarding ILM implementation. (10 Marks)
b. List down the logical components of the hosts? Explain in detail regarding
i) Volume management ii) File system. (10 Marks)
- 2 a. Describe the two types of RAID implementation? Explain the features of RAID – 5 with a neat diagram. (06 Marks)
b. With a neat diagram, briefly explain the components of a intelligent storage system. (07 Marks)
c. With a neat diagram, discuss the features of high end storage systems. (07 Marks)
- 3 a. Explain two types of DAS along with benefits and limitations. (05 Marks)
b. Explain SCSI – 3 client server model with a neat diagram. (05 Marks)
c. Briefly explain fibre channel protocol stack with a neat diagram. (05 Marks)
d. Explain the different types of fibre channel ports with a neat diagram. (05 Marks)
- 4 a. What are benefits of NAS? Explain the components of NAS with a neat diagram. (08 Marks)
b. What is iSCSI? Explain iSCSI protocol stack with a neat block diagram. (08 Marks)
c. Write a short note on NFS. (04 Marks)

PART – B

- 5 a. Explain the architecture of CAS with a neat diagram. List out the features of CAS. (08 Marks)
b. Explain block level storage virtualization with a neat diagram. (06 Marks)
c. Write a short notes on :
i) Network Virtualization ii) Server virtualization. (06 Marks)
- 6 a. Explain Business Continuity (BC) planning lifecycle in detail. (06 Marks)
b. Define the following terminologies. (06 Marks)
i) Disaster Recovery ii) RPO iii) RTO.
c. Explain any two basic backup topologies that are used in a backup environment. (08 Marks)
- 7 a. With a neat diagram, explain LVM based local replication. Discuss advantages and disadvantages. (10 Marks)
b. Briefly explain synchronous and asynchronous modes of remote replication with a neat diagram. (06Marks)
c. Write a short note on DWDM. (04 Marks)
- 8 a. Briefly explain the SAN security architectures illustrating the various levels (zones) of storage environment that must be secured. (10 Marks)
b. Explain the concept of Kerberos with a neat diagram. (10 Marks)

* * * * *

Important Note: - On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
By scanning the document on applet, you can save your answers in a separate file. For more details, visit <http://www.mcafee.com>