Librarian Carrie	CBCS SCHEME
USN Harman & Tachine 1007	

Seventh Semester B.E. Degree Examination, Feb./Mar. 2022 Storage Area Networks

Max. Marks: 80 Time: 3 hrs.

2.1	Max. Marks: 80
Time: 3 hrs.	ossing ONE full question from each module.
Note: Answer any FIVE full questions, c	noosing ONE full question from each module.
a. Explain key characteristics of a data ceb. What is a file system? Explain the pro	nter with a neat diagram. (08 Marks) eess of mapping user files to disk storage with a neat (08 Marks)
diagram. 2 a. Explain RAID techniques with a neat of b. With a neat diagram, explain the comp	OR iagram. onents of an Intelligent Storage System (ISS). (08 Marks)
3 a. Explain FC connectivity with a neat d b. What is iSCSI? With a neat diagram e	odule-2 agram. (08 Marks) splain iSCSI protocol stack. (08 Marks)
4 a. Define NAS. With a neat diagram, ex b. With a neat diagram, explain the cond	OR blain the components of NAS. (08 Marks) cept of object storage and retrieval in OSD systems. (08 Marks)
	n, explain the different backup topologies. (08 Marks) neat diagram, explain source-based data deduplication (08 Marks)
a. Describe the various Host-Based loc.b. What is a remote replication? Explain	OR I replication technologies. (08 Marks) I synchronous and asynchronous replication mode in it. (08 Marks)
7 a. Explain the benefits of cloud compub. Explain the different classification of	Module-4 ing. (08 Marks) Coloud deployment models. (08 Marks)
8 a. Explain the following: i) In-Band Virtualization Applia ii) Out-of-Band Virtualization A	OR nces opliances. age virtualization with a neat diagram. (08 Marks) (08 Marks)
 b. Explain the Application-Aware store a. Explain the SAN security architects b. Define Kerberos. Explain Kerberos 	Module-5 re with a neat diagram. (08 Marks)
10 Explain storage infrastructure man	OR gement activities. (08 Marks)

Explain storage infrastructure management activities. 10

What is Storage tiering? Explain Intra Array storage and Inter-Array storage tiering.

(08 Marks)

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