		CBCS SCHEME	
USN		En CENTIARY IE LIBRARY	15CS754
		Seventh Semester B.E. Degree Examination, Feb./Mar. 20 Storage Area Networks	22
Tim	ne: 2		arks: 80
	N	ote: Answer any FIVE full questions, choosing ONE full question from each m	odule.
1	a. b.	<u>Module-1</u> Explain key characteristics of a data center with a neat diagram. What is a file system? Explain the process of mapping user files to disk storag diagram.	(08 Marks) e with a neat (08 Marks)
2	a. b.	OR Explain RAID techniques with a neat diagram. With a neat diagram, explain the components of an Intelligent Storage System (I	(08 Marks) SS). (08 Marks)
		Module-2	
3	a. b.	Explain FC connectivity with a neat diagram. What is iSCSI? With a neat diagram explain iSCSI protocol stack.	(08 Marks) (08 Marks)
		OR	
4	a.	Define NAS. With a neat diagram, explain the components of NAS.	(08 Marks)
	b.	With a neat diagram, explain the concept of object storage and retrieval in OSD	systems. (08 Marks)
_		Module-3	
5	a. b.	What is a backup? With a neat diagram, explain the different backup topologies. What is a Data deduplication? With a neat diagram, explain source-based data of	
		and Target-Based data deduplication.	(08 Marks)
_		OR	
6	a. b.	Describe the various Host-Based local replication technologies. What is a remote replication? Explain synchronous and asynchronous replication	(08 Marks) n mode in it.
			(08 Marks)
7	0	Exploit the herefits of aloud computing	(09 Marles)
7	a. b.	Explain the benefits of cloud computing. Explain the different classification of cloud deployment models.	(08 Marks) (08 Marks)
	Ċ	OR	
8	a.	Explain the following:	
		<ul><li>i) In-Band Virtualization Appliances</li><li>ii) Out-of-Band Virtualization Appliances.</li></ul>	(08 Marks)
	b.	Explain the Application-Aware storage virtualization with a neat diagram.	(08 Marks) (08 Marks)
		Module-5	
9	a.	Explain the SAN security architecture with a neat diagram.	(08 Marks)
	b.	Define Kerberos. Explain Kerberos authorization with a neat diagram.	(08 Marks)
10		OR	
10	a. b.	Explain storage infrastructure management activities. What is Storage tiering? Explain Intra Array storage and Inter-Array storage tier	(08 Marks) ing.
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