08/05/13 B.E (17) VIII Rev

Desneha /April 2013 110

Con. 7454-13.

Info. Sterage mjont & Disaster Recover

## (REVISED COURSE)

(3 Hours)

Total Marks: 100

	N.B.: (1) Question No. 1 is compulsory.	
	(2) Solve any <b>four</b> questions from remaining six questions.	
	(3) Assume suitable data wherever necessary.	
•	(a) Consider a disk I/o system in which an I/o request arrives at the rate of 60 IOPS. The disk service time is 4ms.	10
	<ul> <li>(i) Compute the following: Utilization of I/o controller, Total response time,         Average queue size and Total time spent by a request in a queue.</li> <li>(ii) Compute the preceding parameter if the service time is halved.</li> </ul>	ļ
	(11) Compute the preceding parameter if the service time is halved.  (b) Explain information Lifecycle. What are the key challenges in managing information?	10
•	(a) Explain the logical components of the Host in detail.	10
	(b) Explain the factors affecting NAS performance and availability in detail.	10
	(a) Explain CAS Architecture with Examples.	10
	(b) Explain Remote replication technologies in brief.	10
	(a) Explain various forms of virtualization and storage virtualization challenges.	10
	(b) Explain failure Analysis with respect to Business continuity.	10
•	(a) Explain fibre channel architecture.	10
	(b) Explain SCSI command model in detail.	10
•	(a) Explain following :-	
	(i) Storage security domains	5
	(ii) Risk Triad.	5
	(b) Explain components of an Intelligent storage system in detail.	U
	Write short notes on the following (any four):-	20
	(a) Zoning	
	(b) Backup in NAS environment	
	(c) Object Storage and Retrieval in CAS	
	(d) LUN and LUN masking (e) Raid levels.	
	(C) Raid tovois.	