Code No: 118ET

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

32	B. Tech IV Year II Semester Examinations, April - 2016 STORAGE AREA NETWORKS (Common to CSE, IT) Max. M	S = (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A consists of 5 Units. Answer any one full question from each unit. Each question marks and may have a, b, c as sub-questions. PART - A	A. Part B carries 10
1.a) b) c) d) e) f) g) h)	Define data storage. What are the logical constructs of a physical disk? What is intelligent storage system? Write about RAID 6. Discuss about impact of down time. Define Disaster recovery. What is data backup? Why do we need replication technology? What are the advantages of Virtualization technology?	[2] [3] [2] [3] [2] [3] [2] [3] [2] [3]
8R*	What is storage virtualization PART - B	50 Marks)
2.a) b)	Describe in brief about the Key protocols and concepts used by each component Discuss in brief about the role of each element in supporting business activities. OR Define Data center? What are the Core elements of a data center infrastructure? Describe in brief about the physical components of a disk drive.	t. [5+5] [5+5]
4.a) b)	Differentiate between FC-SAN and IP-SAN topologies. Explain in brief about High-level architecture and working of an intelligent stora	ige system. [5+5]
S = 5.a) b)	OR Explain in brief about the Architecture of FC-SAN. Write about the network storage options for different application environments.	[5+3]
6.a) b)	Differentiate between RTO and RPO. Describe in brief about Identification single points of failure in a storage infrast list solutions. OR	tructure and [5+5]
$\bigcirc \bigcirc^{7.a)}_{b)}$	Differentiate between business continuity (BC) and disaster recovery (DR). What are the advantages and disadvantages of RPO?	[5+5]

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8.a) b)	Describe in br Draw the arch	[5+5]				
9.a) b)	Write about d What is the ro	ifferent back up to ble of replication t	echnologies. echnology in en	suring information	n availability?	[5\ddot{\dot{5}}]
10.a) What are the limitations of file level virtualization technology.b) What are the key areas to monitor in a data center?						[5+5]
11.a) b)	Describe in b	rief about block-l	evel and file-leve	el virtualization to ibutes for informa	echnologies.	[5+5]
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