Reg No.:_____   Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
EIGHTH SEMESTER B.TECH DEGREE EXAMINATION(S), OCTOBER 2019

Course Code: IT482
Course Name: Information Storage Management

Max. Marks: 100   Duration: 3 Hours

PART A
Answer any two full questions, each carries 15 marks.   Marks

1	a)	How to enable the connectivity and communication between host and storage?	(8)
	b)	Write notes on: Virtualization and Cloud.	(7)
2	a)	Write down the features and key components of Intelligent Storage System.	(12)
	b)	What are the benefits provided by an intelligent storage system to an organization?	(3)
3	a)	Differentiate Software RAID and Hardware RAID.	(5)
	b)	How is parity calculated in RAID?	(2)
	c)	Explain various stages of Information Life Cycle.	(8)

PART B
Answer any two full questions, each carries 15 marks.

4	a)	Explain fibre channel architecture in detail.	(12)
	b)	Write the different ports used in Switched Fabric.	(3)
5	a)	What are the different File sharing protocols used in NAS?	(8)
	b)	What do you meant by Path maximum transmission unit discovery?	(3)
	c)	What is Link aggregation?	(4)
6	a)	Explain the various network-based Virtualization techniques used in SAN environment.	(8)
	b)	What are the key components of Unified storage system?	(7)

PART C
Answer any two full questions, each carries 20 marks.

7	a)	Define Information Availability (IA).	(5)
	b)	How to measure Information Availability? A system has three components and requires all three components to be operational 24 hours, Monday through Friday. Failure of component 1 occurs as follows: 1) Monday = No failure. 2) Tuesday = 5 a.m. to 7 a.m.	(6)

3) Wednesday = No failure.
4) Thursday = 4 p.m. to 8 p.m.
5) Friday = 8 a.m. to 11 a.m.
Calculate the MTBF and MTTR of component 1.

	c)	What are the important terminologies used in Business Continuity?	(9)
8	a)	What are the different purposes of Backups?	(5)
	b)	Write the different technologies used for Local Replication.	(5)
	c)	Explain the security domains of Storage Management Environment.	(10)
9	a)	Explain the three key elements of the risk triad.	(6)
	b)	Explain different storage management activities performed in data center.	(10)
	c)	Why are information security frameworks necessary?	(4)

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