

SCHOOL OF INFORMATION TECHNOLOGY AND ENGINEERING Mid Term – SUMMER SEMESTER -II, 2023

Programme Name: MCA

Class Number(s): VL2022230701038, VL2022230701039,

VL2022230701040

Course Name Code: ITA6006

Course Name: Storage Systems and Management

Faculty Name: Dr. Karthikeyan P, Dr Arunkumar A, Mr. Maddiralla Vinay

Answer all the questions (5 x 10=50)

Max Marks: 50

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Q.no.	Question	
Į.	The GRIT (GreenBook Research Industry Trends) is the lead industry worldwide. Over 30,000 market researchers, market clients & suppliers—use each edition to understand the trend and profession. They see GRIT as an invaluable resource organizations and careers, in ways both strategic and tactical. Assume that GRIT plan to establish its new branch in India. brainstorming session in order to optimize its IT infrastructenlist the Critical Parameters involved in deploying a storage with the required key elements for developing the data centres.	eters, and executives—both ands impacting the industry arce to future-proof their. The Technical team had a eture. As a research intern, e system for above scenario
	Consider an application that requires 1TB of storage capacity Application I/O size is 6KB, as it is business critical application within acceptable range.	y and performs 5600 IOPS. tion, response time must be
2.	Specification of available disk drive: Drive capacity = 100 GB 15000 RPM 6ms average seek time 40 MB/sec transfer rate	
<i>¥.</i>	Calculate the number of disks required? Assume that 3i Technologies, IT Solutions company transactions monitoring process in ATMs for a bank which states in India. During the recent security audit meeting transaction process aspects is facing service delays in consultable hybrid RAID solution for achieving the better transaction speed.	is operated in all over the the CTO pointed out the customer's side. Deploy a
A.	Consider a disk I/O system in which an I/O request arrives a disk service time is 5ms. Compute the following: Utilization of I/O controller, Total response time, Average queue size, Total time spent by a request in a queue, Compute the preceding parameter if the service time is halve.	ed.
<i>5</i> .	Microsoft Azure or Amazon Web Services (AWS) offers sa which is designed for storing and managing large amounts of text files, images, videos, audio files, backups, and other bir concept and propose a detailed explanation.	me type of cloud storage of unstructured data, such as