Name:

**Enrolment No:** 



## **UPES**

## **End Semester Examination, May 2023**

Course: B Tech CSE+IT Infra

Program: Backup and DR

Course Code: CSEG4005P

Semester: VIII

Time : 03 hrs.

Max. Marks: 100

**Instructions: Attempt all questions.** 

	SECTION A (5Qx4M=20Marks)		
S. No.		Marks	CO
Q 1	What are the key distinctions between capacity-centric and access-centric hard drives?	4	CO1
Q 2	What is the difference between reliability and availability?	4	CO3
Q 3	Explain the concepts of hot swapping and hot plugging and illustrate their relation to high availability.	4	CO3
Q 4	Classify the types of disasters that can potentially affect an organization.	4	CO4
Q 5	Analyze the key components of a disaster recovery plan.	4	CO5
	SECTION B (4Qx10M= 40 Marks)		
Q 6	Analyze the different types of backup methods, their advantages, and their disadvantages.	10	CO1
Q 7	Analyze the concept of high availability clustering and evaluate its advantages. How does this approach ensure business continuity?	10	CO2
Q 8	Explain the phases of disaster recovery planning.	10	CO4
Q 9	Analyze the benefits and challenges of implementing high availability and virtualization in disaster recovery planning.	10	CO5
	SECTION-C (2Qx20M=40 Marks)		
Q 10	XYZ Corporation is a multinational company with operations in various countries. The company's data center in one of its locations recently experienced a major disaster due to a severe storm, resulting in the loss of critical data and infrastructure. As the IT manager of the company, you have been tasked with developing a disaster recovery plan to ensure that the company's critical systems and data are protected and can be recovered in the event of a similar disaster.	20	CO4/CO 5

Q 11	and networking/communication. Finally, provide recommendations for conducting DR drills and improving the DR plan based on lessons learned from the recent disaster.  Explain the various disk storage technologies and their characteristics. Also, discuss the different types of disk drives and their use cases. Additionally, provide a comparison between disk systems and tape storage.  OR  Design a high-availability solution for a virtual environment. Discuss the	20	CO1/CO
QII	Also, discuss the different types of disk drives and their use cases. Additionally, provide a comparison between disk systems and tape storage.	20	
	Additionally, provide a comparison between disk systems and tape storage.  OR  Design a high-availability solution for a virtual environment. Discuss the	20	