Reg. No. :

Question Paper Code: U9305

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024

Professional Electives

Computer Science and Business Systems

21ITV305 - STORAGE TECHNOLOGIES

(Regulations 2021)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. list out some of the factors that have contributed to thegrowth of digital data: CO1 - U

2. What are the Five core elements are essential for the basic functionality of a   CO1 - U
    data center?

3. What are the advantages of cloud computing   CO1 - U

4. List out the types of mobile communication   CO1- U

5. List the benefits block storage.   CO1- U

6.
    How does object storage work?   CO2-App

7. How to define backup methods and its types?   CO1- U

8. Define data achieve and its types.   CO1- U

9. Define Data compression.   CO1- U

10. List out the process of storage Management.   CO1- U

PART – B (5 x 16= 80 Marks)

11. (a) Describe about the software - defined data center (SDDC) and the   CO1- U   (16)
        components.

                                    Or

    (b) Explain in detail about the Social networking.   CO1- U   (16)

12. (a) Illustrate the concepts of Cache Memory and its mapping techniques.   CO1- U   (16)

<div align="center">Or</div>

    (b) Explain the various RAID Levels with sutable diagram.   CO1- U   (16)

13. (a) Discuss in detail about File based storage systems.   CO1 - U   (16)

<div align="center">Or</div>

    (b) Explain detail about the SDN (software-defined networking).   CO1- U   (16)

14. (a) Discuss in detail about the Disaster recovery as a service(DRaaS).   CO1 –U   (16)

<div align="center">Or</div>

    (b) Explain in detail about Cloud-based Backup and Mobile Device Backup.   CO1-U   (16)

15. (a) Which is the best practice for implementing backup and recovery strategies to protect data in a storage infrastructure?   CO2- App   (16)

<div align="center">Or</div>

    (b) How would you identify and troubleshoot performance bottlenecks in a storage infrastructure?   CO2- App   (16)