



Register Number:
Date: 21 /11/2020

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE-27
MSc – III SEMESTER
END SEMESTER EXAMINATION: NOVEMBER 2020
CSDE 9418- DATA STORAGE TECHNOLOGIES

Time- 2 1/2 hrs.

Max Marks-70

This question paper contains 1 page and 1 section.

Answer any seven of the following questions: (10*7=70)

1. A) Describe Big Data and its eco system in detail. [5]
B) Identify various data centre infrastructure elements and their requirements in storage management. [5]
 2. A) what is the need of Zone bit recording? Explain. [4]
B) Which components constitute disk service time? How? [6]
 3. How does disk reliability is addressed in RAID levels? Give a comparative analysis of RAID 4 and RAID 5 in terms of read efficiency, write efficiency, fault tolerance and usable capacity. [10]
 4. Explain read and write operation of cache in Intelligent Storage System. [10]
 5. A) Illustrate Fibre Channel Addressing. [5]
B) Mention five benefits and five limitations of using FC-SAN over IP-SAN. [5]
 6. A) What does the FCoE technology use to overcome its lossy nature of transmission? [7]
B) Compare General purpose servers versus NAS Devices [3]
 7. A) Discuss the evolution of networked storage and briefly outline its architecture along with description of FC-SAN. [8]
B) What benefit File level virtualization offers? [2]
 8. What are the different NAS implementations? Explain with diagrams. [10]
 9. A) Briefly describe the key management principles in detail. [7]
B) How a Local business continuity technique differs from Remote business continuity techniques? [3]
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