

Seventh Semester B.E. FASTTRACK Examination, October 2022
STORAGE AREA NETWORKS

Max. Marks : 100

Time: 3 hrs

Instructions : 1. Answer any FIVE full Questions selecting at least ONE Question from Each Unit.

MODULE 1

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|--|-----|-----|-----|------|
| 1a. Explain Evolution of Storage Technology and architecture. | [2] | [1] | [1] | [10] |
| 1b. What are key challenges in managing information. Explain in detail | [2] | [1] | [1] | [10] |

OR

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|---|-----|-----|-----|------|
| 2a. Describe ILM implementation in detail? Mention its benefits | [2] | [1] | [1] | [10] |
| 2b. Explain the core elements of the Data Center with example. | [2] | [2] | [1] | [10] |

MODULE 2

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|---|-----|-----|-----|------|
| 3a. What is RAID? Explain RAID Array Components | [2] | [3] | [1] | [10] |
| 3b. Differentiate between RAID 0 and RAID 0+1 | [2] | [3] | [2] | [10] |

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| 4a. Explain HOT Spare with neat Diagram | [2] | [3] | [1] | [10] |
| 4b. Explain the following techniques which are used in different RAID levels
Stripping
Mirroring | [2] | [3] | [2] | [10] |

MODULE 3

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|---|-----|-----|-----|------|
| 5a. Explain the following components of SAN
i)Node ports
ii)Cabling | [2] | [2] | [2] | [10] |
| 5b. Explain the various components of NAS. Discuss the benefits of NAS | [1] | [2] | [1] | [10] |

OR

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|---|-----|-----|-----|------|
| 6a. Explain general purpose versus NAS devices. Explain NAS file I/o System | [2] | [2] | [1] | [10] |
| 6b. Explain FC Connectivity Fiber Channel Switched Fabric | [2] | [2] | [2] | [10] |

MODULE 4

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|---|-----|-----|-----|------|
| 7a. What is Virtualization? Explain Network Virtualization and Storage Virtualization with neat diagram | [2] | [2] | [1] | [10] |
| 7b. Explain Symmetric and Asymmetric Virtualization with neat diagram | [2] | [2] | [1] | [10] |
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|---|-----|-----|-----|------|
| 8a. Explain Implementation consideration of Storage Virtualization | [2] | [2] | [2] | [10] |
| 8b. Differentiate between Block Level and File Storage Virtualization | [2] | [2] | [2] | [10] |