Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**Supplementary Examination – June – 2017**

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| **Code :** | **14CS2065** | **Duration :** | **3hrs** |
| **Sub. Name :** | **STORAGE AREA NETWORKS** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| Q. No. | Sub Div. | Questions | Course  Outcome | Marks |
| 1. | a. | Distinguish SAN and NAS architectures. | CO1 | 10 |
| b. | Illustrate how the processing of digital information has continually evolved to become increasingly flexible and approachable. | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | Write short notes on Storage Wide Area Networks. | CO1 | 5 |
|  | b. | Elaborate how SAN paradigm shift impacts the information processing and helps to achieve better performance in information processing architecture. | CO1 | 15 |
| 3. |  | Describe in detail about backup and the different ways in which SAN technology can be used to improve backup in general and also in particular the enterprise client/server backup. | CO1 | 20 |
| (OR) | | | | |
| 4. | a. | Illustrate the different data transformation paths that are commonly found in the application systems. | CO2 | 10 |
|  | b. | Discuss the role of parity disks in achieving fault tolerance during disk failures. | CO4 | 10 |
| 5. | a. | Explain the standards and infrastructure of Fibre Channel in SAN. | CO4 | 10 |
|  | b. | Differentiate the topologies that shapes the fibre channel of storage area network. | CO1 | 10 |
| (OR) | | | | |
| 6. | a. | What are frozen images? Discuss the creation and usage of frozen images with examples. | CO3 | 10 |
|  | b. | Explain the two main techniques for improving disk access speed for I/O intensive applications. | CO3 | 10 |
| 7. |  | Discuss about different types of replication and its advantages with necessary diagrams and examples. | CO2 | 20 |
| (OR) | | | | |
| 8. |  | Explain the need of enterprise backup architecture and its policies with relevant examples and neat sketches. | CO4 | 20 |
|  | | **Compulsory:** |  |  |
| 9. | a. | Evaluate storage area network adoption alternatives from standpoint of technical challenge and its impact on enterprise. | CO4 | 10 |
|  | b. | Discuss the role of zoning in dividing the SAN into private subnetworks within each of which cooperative sharing of resources is possible. | CO4 | 10 |

ALL THE BEST