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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

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

**End Semester Examination – Nov/Dec – 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **14CS2065** | **Duration :** | **3hrs** |
| **Sub. Name :** | **Storage Area Network** | **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. | Justify the statement *“Hardware makes SAN possible; Software makes SANs happen”.* | CO1 | **10** |
| b. | Discuss about the various generation of computing architectures that overcame the barriers in digitizing the data to users and now has evolved as a technology with interactivity, responsiveness and adaptability as the usability aspects for accessible and timely conduct of business. | CO1 | **10** |
| **(OR)** | | | | |
| 2. |  | SANs enable any-to-any connectivity between servers and storage devices improving the ability of organizations to move their data and thus enabling a paradigm shifts .Explain the paradigm shift changes that can lower information processing capital costs through increased device and capacity sharing as well as through more efficient communications. | CO2 | **20** |
| 3. |  | Describe in detail the different ways in which SAN technology can be used to improve backup in general and also in particular the enterprise client/server backup. | CO2 | **20** |
| **(OR)** | | | | |
| 4. |  | Discuss about the component faults that can result in data availability loss and how RAID subsystem engineers have designed the online storage to protect against them. | CO2 | **20** |
| 5. |  | Elucidate the standards,components,interconnects,and protocol that consitiute Fibre Channel which is dominant SAN interconnect technology. | CO2 | **20** |
| **(OR)** | | | | |
| 6. | a. | Explain the two main techniques for improving disk access speed for I/O intensive applications. | CO3 | **10** |
|  | b. | A volume manager is an important data availability tool.Justify | CO4 | **10** |
| 7. |  | Discuss about different types of replication and its advantages with necessary diagrams and examples. | CO4 | **20** |
| **(OR)** | | | | |
| 8. |  | Illustrate the need of enterprise backup architecture and its policies with relevant examples and neat sketches. | CO4 | **20** |
|  | | **Compulsory:** |  |  |
| 9. |  | Elobrate the nine steps of preferred approach in planning and implemenmting an enterprise information processing strategy towards successful SAN deployment | CO4 | **20** |

ALL THE BEST