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

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**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

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

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| **End Semester Examination – April/May – 2017** | | | |
| **Code :** | **14CS2043** | **Duration :** | **3hrs** |
| **Sub. Name :** | **VIRTUALIZATION** | **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. | Explain the hardware components of computer. | CO1 | 10 |
| b. | Write the functionalities of the following  I. Hardware Emulators  ii. Application Virtual Machines  iii. Mainframe Virtual Machine  iv. Operating System Virtual Machines  v. Parallel Virtual Machines | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | Assess the four virtual network types supported by Microsoft and VMware virtualization applications. | CO2 | 10 |
| b. | Analyze the various physical hardware devices needed for interconnecting Vms. | CO1 | 10 |
| 3. |  | Explain the various steps involved in “Installing VMware Workstation” for Linux | CO1 | 20 |
| (OR) | | | | |
| 4. | a. | Describe the VMware Virtual Hardware Options for Linux. | CO2 | 10 |
|  | b. | Summarize the process of renaming VMware Workstation VM and backing Up VMware Workstation. | CO2 | 10 |
| 5. | a. | Explain how CPUs are managed for a Virtual Machine. | CO3 | 10 |
|  | b. | Justify the need of memory optimizations for a virtual machine. | CO3 | 10 |
| (OR) | | | | |
| 6. | a. | Write the steps associated with Configuring VM Storage Options. | CO3 | 10 |
|  | b. | Justify the need of Tuning VM Storage. | CO3 | 10 |
| 7. | a. | Point out the steps involved in performing Traditional Agent-Based Backups | CO3 | 10 |
|  | b. | Estimate the benefits of Full System Recovery and list down the procedure to be followed. | CO3 | 10 |
| (OR) | | | | |
| 8. | a. | Explain the implementation process of Linux DFS. | CO4 | 10 |
|  | b. | Write the benefits associated with using Samba with Kerberos Authentication. | CO4 | 10 |
|  | | **Compulsory:** |  |  |
| 9. | a. | Assess the functioning of the common RAID Levels. | CO4 | 10 |
|  | b. | Summarize the benefits and implementation steps of RAID. | CO4 | 10 |

ALL THE BEST