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 – April/May– 2017**

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| **Code :** | **14CS3058** | **Duration :** | **3hrs** |
| **Sub. Name :** | **VIRTUAL REALITY TECHNOLOGY** | **Max. marks :** | **100** |

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

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| Q. No. | Sub Div. | Questions | Course  Outcome | Marks |
| 1. |  | Define virtual reality.Explain how virtual reality differs from augmented reality and telepresence. Pictorially represent the five components of the VR system. | CO1 | 20 |
| (OR) | | | | |
| 2. |  | Explain the working of the 3D magnetic sensor used by the VPL DataGlove and Mechanical tracker used in the Push 1280 stereo display. | CO2 | 20 |
| 3. | a. | Pictorially describe the working of the InterSense Inc. IS-900 software. | CO2 | 10 |
|  | b. | Describe the functioning of the head-mounted display(HMD) integration in a VR system for a consumer HMD and a professional HMD. | CO3 | 10 |
| (OR) | | | | |
| 4. |  | Explain the working of a temperature feedback glove and aWingMan Force 3D joystick with flow diagram. | CO3 | 20 |
| 5. | a. | Make a drawing and explain the working of a Fire GL2 graphics board. | CO2 | 10 |
|  | b. | Summarize the network topologies for the Multiuser-Shared Virtual Environments. | CO2 | 10 |
| (OR) | | | | |
| 6. |  | Give the system architecture and Expert3D graphics card detail of Sun Blade 1000 workstation. | CO2 | 20 |
| 7. |  | Classify the various types of Level-of-Detail Management. Explain them with real time examples. | CO1 | 20 |
| (OR) | | | | |
| 8. |  | Pictorially represent the GHOST integration with the graphics pipeline adopted from the SensAble Technologies. | CO2 | 20 |
|  | | **Compulsory:** |  |  |
| 9. |  | Explain the impact caused by the VR on the society. Point out the various factors influencing their growth in recent times. | CO1 | 20 |

ALL THE BEST