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– 2017**

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|  |  |  |  |
| **Code :** | **14CS3002** | **Duration :** | **3hrs** |
| **Sub. Name :** | **MULTIMEDIA DESIGN STORAGE AND ANALYSIS** | **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. | Why is file or data compression necessary for Multimedia activities? | CO1 | 8 |
|  | b. | Briefly explain lossless compression and lossy compression and their techniques of compression | CO1 | 12 |
| (OR) | | | | |
| 2. |  | You are participating in developing a multimedia film competition project. You are assigned as the sound editor for the project. Which type of audio compression you will use? Explain it. | CO1 | 20 |
|  |  |  |  |  |
| 3. | a. | Why are Levels 2 and 4 of the RAID standards not used very frequently for commercial systems? How would you improve upon RAID Level5? How do these improvements impact the cost structure of these drives? | CO1 | 12 |
|  | b. | Explain where and why you would use magnetic storage in multimedia system. | CO2 | 8 |
| (OR) | | | | |
| 4. | a. | Explain the database management systems for multimedia systems. | CO2 | 10 |
|  | b. | Elaborate the methods for multimedia storage and retrieval. | CO2 | 10 |
|  |  |  |  |  |
| 5. |  | Explain the different application classes of multimedia based on target audience. | CO2 | 20 |
| (OR) | | | | |
| 6. | a. | Define Virtual reality design. | CO3 | 4 |
|  | b. | Describe the human factors which are considered in Virtual reality design | CO3 | 16 |
|  |  |  |  |  |
| 7. |  | Develop a design scheme for automatic load balancing of video objects in a cross-enterprise wide area network. What are the design issues that must be addressed? | CO3 | 20 |
| (OR) | | | | |
| 8. | a. | List and explain the features that can be used to characterize the audio signal. | CO3 | 10 |
|  | b. | Differentiate content based video retrieval and content based image retrieval. | CO3 | 10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Explain in detail about Content-based Video Retrieval and Browsing. | CO2 | 20 |

ALL THE BEST