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

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**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **17CS2053** | **Duration :** | **3hrs** |
| **Sub. Name :** | **MULTIMEDIA SYSTEMS AND DESIGN** | **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. | Illustrate the multimedia applications. | CO1 | 6 |
| b. | Write detailed notes on architecture of multimedia. | CO2 | 7 |
| c. | Discuss the multimedia data interface standards. | CO3 | 7 |
| **(OR)** | | | | |
| 2. | a. | Examine the various types of compression. | CO2 | 6 |
| b. | Describe the video image compression. | CO3 | 10 |
| c. | Demonstrate the concept of audio compression. | CO1 | 4 |
|  |  |  |  |  |
| 3. | a. | Write brief notes on binary image compression schemes. | CO3 | 8 |
| b. | Illustrate color, gray scale and still image compression. | CO2 | 7 |
| c. | Determine the concept of fractal compression. | CO1 | 5 |
| **(OR)** | | | | |
| 4. | a. | Summarize about video and image display system. | CO3 | 6 |
| b. | Write short notes on the print out technologies. | CO1 | 4 |
| c. | Define image scanner. Explain its types and techniques to enhance the image. | CO2 | 4 |
| d. | Discuss about MIDI. | CO3 | 6 |
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| 5. | a. | Write short notes on digital audio. | CO3 | 6 |
| b. | Classify the types of voice recognition system. | CO3 | 6 |
| c. | Discuss the image animation techniques. | CO2 | 4 |
| d. | List out the video capture board architecture. | CO1 | 4 |
| **(OR)** | | | | |
| 6. | a. | Explain about magnetic media technology. | CO3 | 10 |
| b. | Write brief notes on CD – ROM construction and its physical layer. | CO2 | 6 |
| c. | Describe the WORM optical drives. | CO1 | 4 |
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| 7. | a. | Illustrate the Magneto – Optical Technology. | CO3 | 10 |
| b. | Explain the hierarchical storage management system. | CO3 | 5 |
| c. | Summarize the concept of cache management for storage system. | CO4 | 5 |
| **(OR)** | | | | |
| 8. | a. | Discuss about multimedia application classes. | CO3 | 5 |
| b. | List the types and components of multimedia systems. | CO2 | 6 |
| c. | Describe the distributed application design issues. | CO2 | 6 |
| d. | Write short notes on virtual reality design. | CO1 | 3 |
|  | | **Compulsory:** |  |  |
| 9. | a. | Explain in detail the multimedia databases. | CO3 | 6 |
| b. | Elucidate the evolving technologies for multimedia system. | CO3 | 8 |
| c. | How to define an object for multimedia system? | CO2 | 6 |