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



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

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| **Code :** | **14CS2030** | **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** |
|  | a. | Describe about the evolving technologies for Multimedia Systems. | | CO1 | 10 |
| b. | Sketch and explain the network architecture for multimedia systems with its standards. | | CO1 | 10 |
| **(OR)** | | | | | |
| 2. | a. | Examine the different types of multimedia elements with suitable examples. | | CO1 | 10 |
| b. | Discuss about the different types of multimedia Data Interface standards with suitable example. | | CO1 | 10 |
|  |  |  | |  |  |
| 3. |  | Describe about the Joint Photographic Experts Group Compression with methodology by giving the detailed view on operation of DCT Based Codec. | | CO1 | 20 |
| **(OR)** | | | | | |
| 4. | a. | Describe about the use of Hypermedia and Hypertext. | | CO2 | 5 |
| b. | How Digital Camera Works? Explain with an architecture overview and its major components involved inside it. | | CO2 | 15 |
|  |  |  | |  |  |
| 5. | a. | Discuss about the different types of image scanners with wide variety of models with a range of sizes,functions, speeds and resolutions. | | CO2 | 15 |
| b. | List the main characteristics of speech recognition system | | CO2 | 5 |
| **(OR)** | | | | | |
| 6. | a. | Appraise on the concepts on hierarchical storage management with suitable illustrations. | | CO3 | 15 |
| b. | What is seek latency and rotational latency? | | CO3 | 5 |
|  |  |  | |  |  |
| 7. |  | Elaborate the implementation of RAID which makes an important role in Storage. | | CO3 | 20 |
| **(OR)** | | | | | |
| 8. |  | List out the virtual reality design consideration and elaborate how these considerations will improve the performance of the system. | CO3 | | 20 |
|  | | **Compulsory:** |  | |  |
| 9. | a. | Explain about the different types of multimedia application classes. Discuss on how the systems plays a major role in the real time scenario. | CO2 | | 10 |
| b | Summarize the application workflow design. | CO2 | | 10 |