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

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**End Semester Examination – Nov/Dec– 2018**

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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** |
| 1. | a. | Explain the following architecture for multimedia system.  Multimedia Workstation architecture. | CO1 | 5 |
| b. | Network architecture. | CO1 | 5 |
| c. | Summarize the various Data interface standard. | CO1 | 10 |
| (OR) | | | | |
| 2. |  | Describe the evolving technologies for multimedia system. | CO1 | 20 |
|  |  |  |  |  |
| 3. |  | Explain the compression and decompression methodologies used in JPEG. | CO2 | 20 |
| (OR) | | | | |
| 4. | a. | Differentiate binary image compression with color image compression. | CO2 | 12 |
| b. | Compress the following data using RLE method.   1. jjjjjsdsdddddddiiiiooppppwwwwwk 2. wwwwaateeerrrwwwwooorrrrrldddd | CO2 | 8 |
|  |  |  |  |  |
| 5. | a. | State the issues that are affecting display performance. Describe it briefly. | CO1 | 12 |
| b. | Calculate the size of dot pitch from resolution: 17-inch monitor, The active display area has width of 12.901 inch, a height of 9.675 inch and a diagonal of 16.125 inch and resolution of 1024 X 768 pixels. | CO1 | 8 |
| (OR) | | | | |
| 6. |  | Write about the print output technologies with suitable diagram. | CO1 | 20 |
|  |  |  |  |  |
| 7. |  | What is RAID? Explain the various levels of RAID technology. | CO3 | 20 |
| (OR) | | | | |
| 8. | a. | Discuss on the usage of optical storage media for storing multimedia objects. | CO3 | 10 |
| b. | Differentiate home systems and Business Systems. | CO1 | 10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Define Workflow. Describe the workflow characteristics in the multimedia application. | CO1 | 20 |