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



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

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| **Code :** | **14MT2019** | **Duration :** | **3hrs** |
| **Sub. Name :** | **VIDEO COMPRESSION TECHNIQUES** | **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. | Appraise on the role of codec and data container in compression. | CO1 | 5 |
| b. | List out and explain in detail on the two types of compression techniques. | CO1 | 15 |
| **(OR)** | | | | |
| 2. | a. | List out few audio compression standards and classify their type. | CO1 | 5 |
| b. | Classify on the different types of lossy and loseless compression technique. | CO1 | 15 |
|  |  |  |  |  |
| 3. | a. | Explain the process of video sampling technique. | CO3 | 5 |
| b. | Discuss in detail on the JPEG Decoding Process. | CO2 | 15 |
| **(OR)** | | | | |
| 4. | a. | Describe the process of Entropy Coding. | CO1 | 5 |
| b. | Discuss in detail on the JPEG Encoding Process. | CO2 | 15 |
|  |  |  |  |  |
| 5. | a. | List out and explain few motion estimation performance issues. |  | 5 |
| b. | Explain in detail with illustration on the MPEG 1 Encoder and Decoder. | CO2 | 15 |
| **(OR)** | | | | |
| 6. | a. | Explain inter mode and intra mode in motion compensation. | CO1 | 5 |
| b. | Explain in detail with illustration on the object coding in MPEG 4 video system. | CO2 | 15 |
|  |  |  |  |  |
| 7. | a. | Recall any few features of MPEG 21. | CO2 | 5 |
| b. | Describe in detail on the DV 25Mbits/s compression with illustration. | CO2 | 15 |
| **(OR)** | | | | |
| 8. | a. | List out few wavelet types. | CO1 | 5 |
| b. | Compare and Contrast DCT based compression and wavelet based compression. | CO1 | 15 |
|  | | **Compulsory**: |  |  |
| 9. |  | Explain in detail on the applications and standards for streaming video. | CO3 | 20 |