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



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

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|  |  |  |  |
| **Code :** | **14VC3001** | **Duration :** | **3hrs** |
| **Sub. Name :** | **3D VIDEO AND GRAPHICS** | **Max. Marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** |  | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Analyze any outdoor scenario of your own choice and demonstrate single camera and multi camera set up requirements for 3D video production. | CO2 | 20 |
| **(OR)** | | | | |
| 2. |  | Describe the significance of photometric calibration and list out its applications in detail. | CO2 | 20 |
|  |  |  |  |  |
| 3. |  | Explain in detail on object tracking algorithum used in 3D video with necessary equations and examples. | CO3 | 20 |
| **(OR)** | | | | |
| 4. |  | List out all the necessary components and explain in brief about their technical specifications, dimensions etc required to set up a 3D video studio with the help of layout diagram. | CO1 | 20 |
|  |  |  |  |  |
| 5. |  | Explain in detail on dynamic full 3D shape reconstruction for 3D video production technique. |  |  |
| **(OR)** | | | | |
| 6. |  | Analyze and interpret the behavioral unit model for data stream encoding and decoding process. | CO3 | 20 |
|  |  |  |  |  |
| 7. |  | Explain in detail about Markov motion graph used for content based representation of 3d video. | CO3 | 20 |
| **(OR)** | | | | |
| 8. |  | Describe the performance evaluation techniques for Complex Kinematic Motion Estimation. | CO1 | 20 |
|  | | **Compulsory**: |  |  |
| 9. |  | What is meant by 3D encoding? Explain in detail on steps involved in encoding 3D visual media into 2D video data. | CO2 | 20 |