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



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

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|  |  |  |  |
| **Code :** | **17MT2002** | **Duration :** | **3hrs** |
| **Sub. Name :** | **DIGITAL COMPOSITING** | **Max. Marks :** | **100** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Explain the Following Image Multisource operations:  i) Over ii) Screen iii) In  iv) KeyMix v) Maximum vi) Minimum. | CO1 | 10 |
| b. | Describe the detailed technique of rotoscoping. | CO1 | 10 |
| **(OR)** | | | | |
| 2. | a. | With neat diagrams, explain the various types of Chroma Subsampling. | CO1 | 10 |
| b. | Explain the importance of Bit Depth and the application of Normalization in images used in compositing. | CO1 | 10 |
|  |  |  |  |  |
| 3. |  | List out few image manipulation operators and image compositing operators and explain them in detail. | CO3 | 20 |
| **(OR)** | | | | |
| 4. | a. | Discuss the various techniques used for compositing in the history of visual effects. | CO1 | 10 |
| b. | Distinguish the procedure for different matter extraction. | CO1 | 10 |
|  |  |  |  |  |
| 5. | a. | Discuss the basic steps to effectively track a feature and bring an element into a live footage. | CO2 | 10 |
| b. | Describe various user interface types found in compositing softwares. | CO2 | 10 |
| **(OR)** | | | | |
| 6. | a. | Summarize about the flow of VFX pipline. | CO2 | 10 |
| b. | Elaborate on various geometrical transforms. | CO2 | 10 |
|  |  |  |  |  |
| 7. |  | List out and explain the various Film and television formats used in the industry with neat diagram. | CO2 | 20 |
| **(OR)** | | | | |
| 8. | a. | Discuss the basic steps to effectively track a feature and bring an element into a live footage. | CO2 | 10 |
| b. | Explain Z-Depth compositing and Multipass rendering. | CO3 | 10 |
|  | | **Compulsory**: |  |  |
| 9. |  | In a given input image,   |  |  |  |  |  | | --- | --- | --- | --- | --- | | .5 | .5 | 1 | 1 | 1 | | .5 | .5 | 1 | 1 | 1 | | .5 | .5 | 1 | 1 | 1 | | .5 | .5 | .5 | 1 | 1 | | .5 | .5 | .5 | .5 | 1 |   Apply basic edge detection on the image to find the value of the pixels marked with “X” in the output Image.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 0 | 0 | 0 | 0 | 0 | | 0 | X | X | X | 0 | | 0 | X | X | X | 0 | | 0 | X | X | X | 0 | | 0 | 0 | 0 | 0 | 0 | | CO3 | 20 |