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

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

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

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

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | List out and explain the various film and television formats used in the industry. | CO2 | 20 |
| (OR) | | | | |
| 2. | a. | On Location, List out the parameters the VFX supervisor must make a note off with regard to lighting & camera. | CO3 | 12 |
| b. | Explain the working of Edge Detection and Median Filters. | CO2 | 8 |
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| 3. | a. | Explain the Following Image multisource operations:  i. Over ii. Screen iii.Masks iv. KeyMix  v. Maximum and Minimum. | CO1 | 10 |
| b. | Describe the detailed technique of rotoscoping. | CO2 | 10 |
| (OR) | | | | |
| 4. | a. | Discuss the basic steps to effectively track a feature and bring an element into a live footage. | CO2 | 8 |
| b. | Explain Z-Depth compositing. | CO3 | 8 |
| c. | Define color space and color gamut list few examples. | CO2 | 4 |
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| 5. | a. | Describe various user Interface types found in compositing softwares. | CO2 | 10 |
| b. | Explain the following :-  i. Resolution ii. Aspect ratio  iii. Blue screen iv. Film grain | CO2 | 10 |
| (OR) | | | | |
| 6. | a. | Explain the tracking a element in a plate. | CO1 | 6 |
| b. | Distinguish the procedure for different matte extraction. | CO1 | 14 |
|  |  |  |  |  |
| 7. |  | Explain the format conversion pipeline and illustrate with a chart which is followed in the VFX industry from source footage to final projection format. | CO1 | 20 |
| (OR) | | | | |
| 8. | a. | Green screen vs blue screen vs Red Screen. Discuss the advantages and disadvantages in compositing. | CO3 | 10 |
| b. | List out the parameters the VFX supervisor should be precise with regard to lighting and shooting with green matte. | CO3 | 10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | 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 | 5 |
| c. | Define keyframes. And list their applications in Compositing. | CO1 | 5 |