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

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

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| **Code :** | **14MT2018** | **Duration :** | **3hrs** |
| **Sub. Name :** | **DIGITAL TV AND DIGITAL VIDEO ENGINEERING** | **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. | Demonstrate the frame structure in SDTI protocol with illustration. | CO2 | 10 |
| b. | Differentiate Composite and Component Video Signals. | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | Discuss on standing waves in antennas. | CO3 | 10 |
| b. | List out and explain different television standards. | CO3 | 10 |
|  |  |  |  |  |
| 3. | a. | Defend on the AERP on the performance of an antenna. | CO2 | 10 |
| b. | List out and explain the Various parameters employed in an antenna. | CO2 | 10 |
| (OR) | | | | |
| 4. | a. | Discuss on any two transmission protocols. | CO3 | 10 |
| b. | Classify on different types of antennas in DTV. | CO2 | 10 |
|  |  |  |  |  |
| 5. | a. | Explain different types of transmission mechanism of DTV. | CO2 | 10 |
| b. | Elaborate on SDTI model based on the OSI reference model. | CO2 | 10 |
| (OR) | | | | |
| 6. | a. | Classify any two classes of service in optical fiber networking. | CO2 | 10 |
| b. | Explain in detail on the reference architecture of optical fiber communication. | CO3 | 10 |
|  |  |  |  |  |
| 7. | a. | Elaborate on frame structure in fiber channel Transport technology with illustration. | CO3 | 10 |
| b. | Explain in detail on COFDM modulation technique for DTV. | CO2 | 10 |
| (OR) | | | | |
| 8. | a. | List out any audio and video compression standards in DTV. | CO3 | 10 |
| b. | Discuss on the reference architecture of satellite DTV in detail. | CO3 | 10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Demonstrate a simple interactivity channel subsystem. | CO2 | 10 |
| b. | Appraise on the working of transport layer in DTV. | CO3 | 10 |