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



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

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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. | List out the various parameters of an antenna. | CO1 | 4 |
| b. | Explain in detail about the different television standards. | CO2 | 16 |
| **(OR)** | | | | |
| 2. | a. | Explain in detail about the various TV resolutions. | CO2 | 4 |
| b. | Write in detail on Composite video signals. Draw relevant diagrams. | CO2 | 16 |
|  |  |  |  |  |
| 3. | a. | Define persistence of vision. | CO1 | 4 |
| b. | Explain in detail about the reference architecture of DTV in detail. | CO2 | 16 |
| **(OR)** | | | | |
| 4. | a. | State the efficiency of a transmission line. | CO2 | 4 |
| b. | Write in detail on SDTI for DTV. Draw relevant diagrams. | CO2 | 16 |
|  |  |  |  |  |
| 5. | a. | Explain eye brain mechanism with illustration. | CO1 | 4 |
| b. | Explain in detail about the reference Giga Ethernet protocol architecture and frame format with topologies. | CO1 | 16 |
| **(OR)** | | | | |
| 6. | a. | Explain about different scanning mechanism in television. | CO1 | 4 |
| b. | Explain in detail on the reference model of terrestrial DTV system. Draw relevant diagrams. | CO1 | 16 |
|  |  |  |  |  |
| 7. | a. | Explain any two classes of service in optical fiber networking. | CO2 | 4 |
| b. | Compare and Contrast various transmission technologies in DTV. | CO2 | 16 |
| **(OR)** | | | | |
| 8. | a. | Define VSWR of an antenna. Explain standing waves. | CO3 | 4 |
| b. | Explain in detail on 8 VSB modulation techniques. | CO3 | 16 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Explain H.264 decoding with relevant diagram. | CO3 | 4 |
| b. | Elaborate in detail on the interactivity channel subsystem. | CO3 | 16 |