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

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**End Semester Examination – Nov/Dec - 2017**

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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 |  | Marks |
| 1. | a. | Explain with neat illustration on frame structure in SDTI protocol? |  | 5 |
| b. | Compare and contrast between Composite, Component. |  | 15 |
| (OR) | | | | |
| 2. | a. | What is SWR of an antenna? Explain standing waves. |  | 5 |
| b. | Explain in detail about the different television standards. |  | 15 |
|  |  |  |  |  |
| 3. | a. | What is AERP? How is it affected? |  | 5 |
|  | b. | What are the Various parameters employed in an antenna? |  | 15 |
| (OR) | | | | |
| 4. | a. | Explain any two transmission protocols. |  | 5 |
|  | b. | What are the different types of antennas in DTV? Explain in detail. |  | 15 |
|  |  |  |  |  |
| 5. | a. | Explain on different types of transmission mechanism of DTV. |  | 5 |
|  | b. | Explain SDTI model based on the OSI reference model in detail. |  | 15 |
| (OR) | | | | |
| 6. | a. | Explain any two classes of service in optical fiber networking. |  | 5 |
|  | b. | Explain in detail on the reference architecture of optical fiber communication. |  | 15 |
|  |  |  |  |  |
| 7. | a. | Explain with neat illustration on frame structure in fiber channel transport technology. |  | 5 |
|  | b. | Explain in detail on COFDM modulation technique for DTV in detail. |  | 15 |
| (OR) | | | | |
| 8. | a. | Name any audio and video compression standard in DTV. |  | 4 |
|  | b. | Explain in detail on the reference architecture of satellite DTV in detail. |  | 16 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Explain a simple interactivity channel subsystem. |  | 5 |
|  | b. | Explain in detail on the working of transport layer in DTV system with relevant diagram. |  | 15 |

ALL THE BEST