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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – Nov/Dec – 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **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. | Explain in detail about the SDTI model based on the OSI reference model. | CO1 | 15 |
| b. | Briefly explain the different scanning mechanism in television. | CO2 | 5 |
| (OR) | | | | |
| 2. | a. | Write a short note on various parameters employed in an antenna ? | CO1 | 15 |
| b. | What is VSWR of an antenna represents?Write the relevance of standing waves in antenna design. | CO2 | 5 |
| 3. | a. | Describe briefly about the various television standards available in the scenario. | CO1 | 15 |
|  | b. | Write a short note on eye brain mechanism involved in television with necessary diagrams. | CO2 | 5 |
| (OR) | | | | |
| 4. | a. | Briefly explain on the reference architecture of satellite DTV in detail. | CO1 | 15 |
|  | b. | What is AERP? How is it affected? | CO1 | 5 |
| 5. | a. | Compare and Contrast various transmission technologies in DTV. | CO2 | 15 |
|  | b. | What is the significance of TV resolutions in the digital world and explain various TV resolutions. | CO2 | 5 |
| (OR) | | | | |
| 6. | a. | Elaborate on Composite video signals with necessary diagrams. | CO1 | 15 |
|  | b. | Write a short note on any two classes of service in optical fiber networking. | CO1 | 5 |
| 7. | a. | Write the importance and relevance of interactivity channel subsystem. | CO2 | 15 |
|  | b. | With necessary diagrams explain briefly on generic audio coding system. | CO2 | 5 |
| (OR) | | | | |
| 8. | a. | Explain in detail on the transmission and reception subsystem. | CO2 | 15 |
|  | b. | Describe any audio and video compression standard employed in DTV. | CO3 | 5 |
|  | | **Compulsory:** |  |  |
| 9. | a. | Write in detail on SDTI for DTV with relevant diagrams. | CO3 | 15 |
|  | b. | What is the efficiency of a transmission line and what is it indicates for? | CO3 | 5 |

ALL THE BEST