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

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

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| **Code :** | **14MT2021** | **Duration :** | **3hrs** |
| **Sub. Name :** | **SATELLITE BROADCASTING** | **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. | Elaborate on the primitive methods of broadcasting in India. | CO1 | 10 |
| b. | Illustrate and Explain the organizational structure of a Radio Station. | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | Appraise on the impact of Digital and HD revolution on broadcasting. | CO2 | 10 |
| b. | Illustrate between contrast Consulted and syndicated production. | CO1 | 10 |
|  |  |  |  |  |
| 3. | a. | Discuss in detail on the different types of satellites and their application. | CO3 | 10 |
| b. | List out the advantages and disadvantages of satellite communication in the digital era. | CO1 | 10 |
| (OR) | | | | |
| 4. | a. | State and explain the Laws of Kepler’s with illustration based on which satellites revolve around primary objects. | CO2 | 10 |
| b. | Discuss in detail, the types of satellite orbits with illustration. | CO2 | 10 |
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| 5. | a. | Classify the different layers in atmosphere with respect to distance from earth surface. | CO2 | 10 |
| b. | Summarize any two satellite subsystems which support the satellite functioning. | CO3 | 10 |
| (OR) | | | | |
| 6. | a. | List out and explain the different types of polarization in satellite communication. | CO2 | 10 |
| b. | Discuss the different types of satellite antennas and outline the mounting principle related to it them. | CO3 | 10 |
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| 7. | a. | Discuss with Illustration of the reception system of DBS TV. | CO3 | 10 |
| b. | Demonstrate the uplink and downlink system in an earth station with diagram. | CO3 | 10 |
| (OR) | | | | |
| 8. | a. | Discuss the video signal waveform with illustration. | CO3 | 10 |
| b. | Demonstrate the functional blocks, with illustration of MPEG 2 Encoder. | CO2 | 10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Identify the disadvantages that a traditional DTH system had in comparison to an IPTV system. | CO3 | 10 |
| b. | Describe in detail about the future trends in satellite broadcasting. | CO3 | 10 |