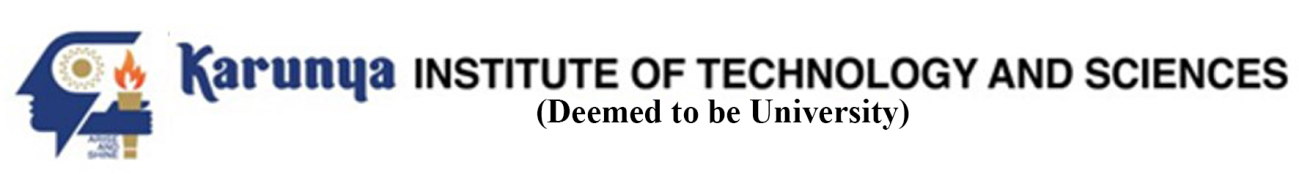
Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



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

|  |  |  |  |
| --- | --- | --- | --- |
| **Code :** | **14EC2050** | **Duration :** | **3hrs** |
| **Sub. Name :** | **BASICS OF SATELLITE COMMUNICATION** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | List the details about Range, Azimuth, elevation angles to satellite with necessary diagrams and equations. | CO2 | 15 |
| b. | Explain in detail about frequency band designation, services in satellite communication | CO2 | 5 |
| (OR) | | | | |
| 2. |  | Elaborate about satellite orbital parameters with necessary diagrams and equations. | CO1 | 20 |
|  |  |  |  |  |
| 3. |  | How do you increase the link system performance? Discuss in detail with its parameters. | CO3 | 20 |
| (OR) | | | | |
| 4. |  | Explicate various types of antenna for satellite communication with neat sketches. | CO1 | 20 |
|  |  |  |  |  |
| 5. |  | With a neat diagram explain in detail about the various types of multiple access techniques. | CO2 | 20 |
| (OR) | | | | |
| 6. |  | Discuss in detail about the factors of transmission impairments in satellite communication. | CO1 | 20 |
|  |  |  |  |  |
| 7. |  | Explain the various methods of data compression used in satellite communication. | CO2 | 20 |
| (OR) | | | | |
| 8. |  | Discuss in detail about spread spectrum techniques in CDMA for satellite communication. | CO2 | 20 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Outline your perception about GSM and explain in detail with necessary diagrams. | CO3 | 20 |