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

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

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| **Code :** | **14EC2037** | **Duration :** | **3hrs** |
| **Sub. Name :** | **TELECOMMUNICATION SWITCHING NETWORKS** | **Max. marks :** | **100** |

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

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| **Q. No.** |  | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Explain about the device-layer relationship in SONET system along with the architecture and the frame formats with neat sketches. | CO1 | 20 |
| (OR) | | | | |
| 2. |  | Assuming the data 1111011001 for encoding, demonstrate the various forms of line encoding techniques with neat diagrams. | CO1 | 20 |
|  |  |  |  |  |
| 3. |  | With necessary architectures and diagrams, explain about TST and STS switching techniques in detail. | CO1 | 20 |
| (OR) | | | | |
| 4. |  | Enlighten the principles and techniques of TD and SD switching in detail with appropriate diagrams. | CO1 | 20 |
|  |  |  |  |  |
| 5. |  | Portray your discernment in detail with reference to Network control and Network Management. | CO2 | 20 |
| (OR) | | | | |
| 6. |  | Explain the issues and tackling methodologies with reference to Network Timing recovery and Timing inaccuracies. | CO2 | 20 |
|  |  |  |  |  |
| 7. |  | Give details about the diverse methodologies of Digital Loop Carrier Systems with neat sketches. | CO3 | 20 |
| (OR) | | | | |
| 8. |  | Reveal the ISDN Basic Rate Access design with supporting architectures, frames and figures. | CO3 | 20 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Interpret the techniques of Traffic Characterization of a switching system. | CO2 | 20 |