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



**End Semester Examination – Nov / Dec – 2019**

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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.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Summarize the concept of multiplexing in signal transmission and explain Time Division Multiplexing of analog and digital sources in detail. | CO1 | 20 |
| **(OR)** | | | | |
| 2. | a. | Explain the functions of each layer in OSI model. | CO1 | 12 |
| b. | Explain the importance of T1 multiplexer. | CO1 | 8 |
|  |  |  |  |  |
| 3. |  | Explain in detail the functioning of space division switching and time division switching with necessary diagrams. | CO1 | 20 |
|  |  |  |  |  |
| **(OR)** | | | | |
| 4. |  | Explain the architecture, multiplexing and signal transmission concepts in SONET system. | CO1 | 20 |
|  |  |  |  |  |
| 5. |  | What is the necessity for network management? | CO2 | 20 |
|  |  |  |  |  |
| **(OR)** | | | | |
| 6. |  | Explain and compare the features of manual with digital cross connect system. | CO1 | 20 |
|  |  |  |  |  |
| 7. | a. | Explain different methods of packet switching in photonic network. | CO1 | 16 |
| b. | List the difference between routers and bridges. | CO2 | 4 |
| **(OR)** | | | | |
| 8. |  | Explain in detail the architecture and services provided by Integrated Services Digital Network. | CO3 | 20 |
|  | | **Compulsory:** |  |  |
| 9. | a. | Discuss the concepts used in Digital Subscriber Line (DSL) with the neat block diagram. | CO3 | 10 |
| b. | Write short notes on MODEM. | CO2 | 10 |