

Code No: **R41045****R10****Set No. 1****IV B.Tech I Semester Supplementary Examinations, October/November - 2017****TELECOMMUNICATION SWITCHING SYSTEMS****(Electronics and Communication Engineering)****Time : 3 hours****Max. Marks: 75****Answer any Five Questions****All Questions carry equal marks***********

- 1 a) Explain elements of a switching system with neat sketch. [8]
b) Write short notes on evolution of telecommunications. [7]
- 2 a) With neat sketch, explain the time division switching. [7]
b) Explain about electronic space division switching with neat sketch. [8]
- 3 a) Explain subscriber loop systems in brief. [7]
b) Explain switching hierarchy and routing. [8]
- 4 a) Compare In-channel signaling and common channel signaling? [7]
b) Explain different modes of operation of common channel signaling. [8]
- 5 a) What is the significance of layered network architecture? Explain in detail with an example. [8]
b) Write about data communication protocols. [7]
- 6 a) Explain the Principle of operation of circuit Switching with an example [8]
b) Explain LAN, MAN, and WAN. [7]
- 7 a) Explain the differences between narrow band ISDN and BISDN. [7]
b) Explain Network level signaling in ISDN. [8]
- 8 a) Write about Digital subscriber line Technology. [8]
b) Write short note on cable modems. [7]