

Code No: **RT41045****R13****Set No. 1****IV B.Tech I Semester Supplementary Examinations, February/March - 2018****ELECTRONIC SWITCHING SYSTEMS****(Electronics and Communication Engineering)****Time: 3 hours****Max. Marks: 70***Question paper consists of Part-A and Part-B**Answer ALL sub questions from Part-A**Answer any THREE questions from Part-B***\*\*\*\*\*****PART-A (22 Marks)**

1. a) What do you mean by 1 Erlang? Explain in brief. [3]
- b) Is TS network non blocking? Explain. [3]
- c) Explain about charging plan. [4]
- d) Differentiate LAN and WAN. [4]
- e) What is call packing in switching network? [4]
- f) Explain about broadband ISDN and ADSL. [4]

**PART-B (3x16 = 48 Marks)**

2. a) Explain the Cross bar Exchange. [8]
- b) What is different switching network configuration? Compare their features. [8]
3. a) Discuss about the combination switching with neat sketch. [8]
- b) Explain the load sharing operation of Centralized SPC. [8]
4. a) Write about modes of operation of Common channel Signaling. [8]
- b) Briefly explain the three form of signaling techniques. [8]
5. a) Explain connection oriented and connection less services with examples. [8]
- b) Explain public switched data networks. [8]
6. a) Write short notes on Strict- Sense non-blocking Networks. [8]
- b) Explain virtual circuit switching concept. [8]
7. a) Write about Signaling in ISDN. [8]
- b) Explain the ISDN connections, groupings and reference points. [8]