

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]