Code No: **R41045**

R10

Set No. 1

IV B.Tech I Semester Supplementary Examinations, March/April - 2016 TELECOMMUNICATION SWITCHING SYSTEMS

(Electronics and Communication Engineering)

Time: 3 hours Max. Marks: 75

Answer any FIVE Questions All Questions carry equal marks

- 1 a) Draw and explain 3X3 crossbar switching principal.
 - b) What is different switching network configuration? Compare their features.
- 2 a) Explain the classification of switching systems? In what way is stored program control superior to hardwired control?
 - b) Compare time division switching and space division switching techniques.
- 3 Explain in detail the Subscriber loop system.
- 4 a) Explain clearly about grade of service and blocking probability.
 - b) Derive expression for the blocking probability of a TSST switch if each stage is individually non-blocking.
- 5 a) Explain in detail the various components of data communication networks.
 - b) Explain different topologies of Data Communication Networks
- 6 a) What is bridge? Explain the operation of source routing bridge.
 - b) What is the relationship between ISDN layers and OSI layers?
- 7 a) Explain the terms Section, Line and Path related to SONET.
 - b) Explain ISDN architecture with neat sketch.
- 8 a) Discuss DSL Technology.
 - b) Write about SONET devices, frame and frame transmission.

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