

R09

Code No: 09A70406

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, November - 2013

Telecommunication Switching Systems
(Electronics and Communication Engineering)

Time: 3 Hours

Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks

- 1.a) Describe the configuration of a step-by-step switching system.
- b) Draw a neat sketch of 100 – line switch using uniselectors. Make suitable assumptions, if needed. [7+8]
- 2.a) Explain the working of a 6×6 crossbar switch.
- b) Describe the design of progressive Gradings. [7+8]
- 3.a) Describe N×N three-stage blocking switching network.
- b) What is 'time-space-time' switch? [7+8]
- 4.a) Describe 'Fine Multiplexed space switching'
- b) What is centralized stored program control? [7+8]
- 5.a) Explain the features of optical Fiber Network.
- b) What is PCM signaling?
- c) What is Frame Relay? [7+8]
- 6.a) Describe CCITT signaling system Number 6.
- b) What is HDLC? Where is it used? [7+8]
- 7.a) Explain the features of cellular networks.
- b) What is a local area network? Bring out a comparison of Bus and Ring networks. [7+8]
8. Write short technical notes on any Three;
 - i) Automatic Alternative Routing
 - ii) Features of Intelligent networks.
 - iii) Call Processing functions.
 - iv) Host-call systems
 - v) Traffic capacity of Gradings. [15]

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