

B.E/B.TECH. DEGREE EXAMINATION, MAY/JUNE 2013

Sixth Semester

Information Technology

080250030-Communication Switching Techniques

(Regulation 2008)

PART A-(10*2=20 marks)

1. Define Switching Technique.
2. What are different types of signalling tones used in telephone network?
3. Specify the advantage of combination switching.
4. State the difference between single and multistage networks.
5. What is blocking probability?
6. Define Grade Of Service (GOS).
7. What is ISDN?
8. What is the use of voice band modem?
9. Define base station.
10. What is working concept of cordless system?

PART B (5*16=80 marks)

11. (a) Explain in detail about block diagram of switching system. Or
(b) Elaborate the Strowger switching with design examples.
12. (a) What is time division switching? With the help of block diagram explain basic time division time switching method. Or
(b) Describe the following:
 - (i) Two stage networks
 - (ii) Centralised SPC with dual processor architecture.
13. (a) (i) Discuss the Lost Call Cleared (LCC) model with infinite no. of subscribers used for Telecommunication system. Derive the expression for the probability of blocking.

(ii) Briefly discuss about LCR model.
Or

(b) Write short notes on following with respect to telecommunication switching networks:

- (i) Delay model
- (ii) Queue analysis.

14. (a) Explain in detail about ISDN. Answer should explain the architecture, features interface modules and reference points.

Or

(b) Describe the following:

- (i) Digital loop carrier system.
- (ii) Fiber in the loop.

15. (a) Explain in detail about cellular networks.

Or

(b) Write short notes about the following:

- (i) Blue tooth
- (ii) Handoff strategies.