

**EIGHTH SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, JUNE 2009**

EC 04 803 – COMMUNICATION SWITCHING SYSTEMS

(2004 Admissions)

Time : Three Hours

Maximum : 100 Marks

Answer all questions.

- I. (a) Briefly explain about the electronic space division switching.
(b) List the advantages of a N-stage combination switching.
(c) List the application of a Digital circuit switching networks.
(d) Briefly explain about the multistage switches.
(e) Briefly explain about the service time characterization.
(f) Briefly explain about the blocking models.
(g) What is meant by routers? Explain about the ATM routers.
(h) Briefly explain about the out band signalling.

(8 × 5 = 40 marks)

- II. (a) Discuss in detail about the Time division switching.

(15 marks)

Or

- (b) Write short notes on :

(i) two stage network.

(7 marks)

(ii) three stage network.

(8 marks)

- III. (a) Write short notes on :

(i) Lee approximation.

(7 marks)

(ii) Non-Blocking switches.

(8 marks)

Or

- (b) Explain in detail about the Improved approximate analysis of blocking switch. (15 marks)

- IV. (a) What is meant by delay systems? Explain in detail about the grade of service. (15 marks)

Or

- (b) Explain in detail about the network traffic load and parameters. (15 marks)

- V. (a) (i) Explain in detail about the Customer line signalling. (10 marks)
(ii) Briefly explain Bense network. (5 marks)

Or

- (b) (i) Explain in detail about the inter register signalling. (10 marks)
(ii) Briefly explain about the Common Channel signalling principle. (5 marks)

[4 × 15 = 60 marks]