C 46695 (Pages 2) Name.....

Reg. No.....

EIGHTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION, JUNE 2008

EC 04 803—COMMUNICATION SWITCHING SYSTEMS

(2004 admissions)

Time : Three Hours Maximum :100 Marks

Answer **all** *questions.*

I. (a) List the advantages of a electronic space division switching.

(b) Briefly explain about the three stage combination switching.

(c) Explain about the lee approximation.

(d) Define DMS.

(e) Briefly explain about the Bense network.

(f) Briefly explain about the PCM signalling.

(g) What are the elements of traffic engineering ?

(h) Briefly explain about the delay systems.

(8 × 5 = 40 marks)

II. (a) Explain in detail about the time multiplexed time switching.

(15 marks)

Or

(b) Write short notes on :

(i) Basics of a Switching System. (7 marks)

(ii) Stored Program Control. (8 marks)

III. (a) Discuss in detail about the improved approximate analysis of blocking switch.

(15 marks)

Or

(b) Explain in detail about the digital switching systems with examples. (15 marks)

IV. (a) Write short notes on : —

(i) Blocking models. (7 marks)

(ii) Loss estimates. (8 marks)

Or

Turn over

(b) (i) Explain in detail about the network traffic load. (7 marks)

(ii) Explain in detail about the incoming traffic. (8 marks)

V. (a) What is meant by ATM Switching ? Explain in detail about the customer line signalling. (15 marks)

Or

(b) Explain in detail about the strict sense non-block switch. (15 marks)

(4 × 15 = 60 marks)