C 28346

Name.....................................

Reg. No...............................

EIGHTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION JULY 2012

EC 2K 804—COMMUNICATION SWITHCHING SYSTEM

Time : Three Hours

Maximum : 100 Marks

Answer all *questions.*

I. (a) What is stored program control ?

(b) Explain time division switching.

(c) How a switching takes place in a three stage network ? Explain.

(d) What is NTI ? Explain.

(e) What parameters affect the traffic of a telephone network ? Explain.

(f) What is delay system ? Explain.

(g) Explain out-band and in-band signaling.

(h) Explain about self routing switches.

(8 × 5 = 40 marks)

II. (a) Explain in detail the operation of Electronic switching system.

Or

(b) Discuss briefly about N-stage time multiplexed time switching. Analyse the characteristics.

III. (a) Write briefly about blocking probability analysis of multistage swiches.

Or

(b) Discuss in brief about the 5ESS switching system.

IV. (a) With an example show how grade of service and blocking probability are evaluated based on the network traffic.

Or

(b) Write briefly about blocking model of a telephone traffic system. How loss estimates are carried out ?

V. (a) Describe briefly about CCITT signaling system No. 7.

Or

(b) Write a brief note on ATM switching.

(4 × 15 = 60 marks)