

GANPAT UNIVERSITY

B.TECH SEM.VII Electronics and Communication Engineering

Theory Examination Nov/Dec -2011

Telecom Transmission & Switching

EC 706 (A) [Elective – II]

TIME: - 3 Hours

Total Marks – 70

Instruction: - 1. Assume suitable data if necessary.

2. Figure right to questions indicates full marks.

Section -I

- Que.-1 (A) Explain briefly simplex telephone circuit with necessary derivations. 06
(B) What is Switching System? Explain the classification of switching systems. 06

OR

- Que.-1 (A) Write short note on step-by-step switching. 06
(B) Explain subscriber loop systems. 06

- Que.-2 (A) Give the difference between Single-stage Network and Multi-stage Network. 06
(B) Write short note on dual processor architecture in standby mode. 05

OR

- Que.-2 (A) Explain time division time switch working in slotted mode. 06
(B) Write short note on principles of cross bar switching. 05

- Que.-3 (A) List potential services that are available with ISDN. 06
(B) Find out blocking probability of two stage space division switching network and number of switching elements if it is non-blocking. 06

Section -II

- Que.-4 (A) What is 100 – line switching system? Give the brief idea of different designs. 06
(B) Draw and explain PCM primary multiplexer in detail. 06

OR

- Que.-4 (A) Draw and explain frame format for 30 channel PCM system. 06
(B) Explain Touch tone dial telephone. 06

- Que.-5 (A) Explain different types of channels used in Broadband ISDN. 06
(B) Explain payload pointer with necessary figure. 05

OR

- Que.-5 (A) Explain two types of access interfaces in ISDN. 06
(B) Explain network node interface with necessary diagram. 05

- Que.-6 (A) Write Short note on random input/random output time switch. 06
(B) Explain positive pulse stuffing in detail. 06

END OF PAPER