

Roll No.

22153

**M. Tech 2nd Semester (E.C.E.)
(Elective - II)
Examination – May, 2018**

SWITCHING SYSTEM

Paper : MEEC-512

Time : Three Hours] [Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any *five* questions. All questions carry equal marks.

1. (a) Draw the diagram and explain basics of switching system. 10
- (b) Write briefly on signaling scheme CCS7. 10
2. (a) What do you mean by Centralised SPC ? Explain load sharing mode with the help of diagraph. 10
- (b) Explain switching system hierarchy and its application 10

22153-350-(P-2)(Q-8)(18)

P. T. O.

3. (a) How blocking probability and the number of switching elements can be reduced in three stage networks? 10
(b) Discuss basic time division time switching. 10
4. (a) Explain three stage combination switching. 10
(b) Discuss Grade of service and blocking probability and how it is calculated? 10
5. How Markov processes and Birth-death processes helps in modeling switching system? Give suitable example. 20
6. (a) Discuss briefly the concept of statistical bandwidth sharing. 10
(b) What do you understand by switch design and how is implemented? 10
7. (a) What do you mean by circuit switching? Explain in detail various phases involved in data transfer in circuit switching. 10
(b) Discuss the essentials of network control and management in switching systems. 10
8. (a) Explain principle and working of ATM switching. 10
(b) Discuss principle and applications of Broadband ISDN.