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**M.Tech. 2nd Semester (ECE) Elective-II Examination,
May-2017**

SWITCHING SYSTEMS

Paper-MEEC-512

Time allowed : 3 hours]

[Maximum marks : 100

Note : Attempt five questions in total. All questions carry equal marks.

1. (a) Discuss various elements of switching system. 10
(b) What do you understand by long-haul telephone communication system and how it works ? 10
2. (a) What do you understand by distributed SPC? Explain Level 2 processing in detail. 10
(b) Discuss in detail enhanced services provided to the subscribers by stored program control mechanism. 10
3. (a) Difference between single stage and multi stage networks. 10
(b) Discuss TST multistage switching. 10
4. (a) Explain advantages of combination switching. 10
(b) Discuss various parameters for calculation of traffic load. 10

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5. How Markov processes and Birth-death processes help in modeling switching system ? Give suitable example. 20
6. (a) Explain various switching hierarchy used in telephone networks. 10
(b) Discuss common channel signalling in details. Also enumerate its advantages. 10
7. (a) Explain working of ATM switching fabric. 10
(b) Enumerate main sources of error and control mechanism in detail. 10
8. (a) Discuss various new services provided by ISDN with suitable example of each. 10
(b) Discuss in detail modelling of integrated ISDN architecture. 10

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