

## **ET 382 R**

**B.Tech. DEGREE EXAMINATION, APRIL 2010.**

**Eighth Semester**

**ECE**

### **TELECOMMUNICATION SWITCHING TECHNIQUES**

**Time : Three hours**

**Maximum : 75 marks**

**Answer FIVE questions choosing ONE full  
from each UNIT.**

**All questions carry equal marks.**

#### **UNIT I**

1. How are switching system classified? Explain briefly about the cross bar exchange. (15)

**Or**

2. (a) What is the significances technique tone in a telephone conversation? (7)
- (b) Describe about the Echo suppressor and cancellers. (8)

## UNIT II

3. Explain with a neat block diagram, the time division space switching. (15)

Or

4. Describe briefly about the software organisation and processing in digital switching. (15)

## UNIT III

5. (a) Compare the in-channel and common channel signalling. (8)

- (b) Explain grade of service and blocking probability. (7)

Or

6. Describe briefly about the principle of common channel signalling and also explain signalling network. (15)

## UNIT IV

7. Write short notes on :

- (a) DSL (7)

- (b) SDH/SONET. (8)

Or

8. Discuss briefly about the single stage and multistage network. (15)



## UNIT V

9. (a) Explain briefly about connection oriented and connection less protocol. (8)
- (b) Explain the functions of layers of OSI architecture. (7)

Or

10. Write short notes on :

- (a) TCP/IP Protocol (7)
- (b) Satellite Based Data Network. (8)
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