**Important Note**

- Download *TCSS model papers* from the following links
  
  **Link1:** [http://drkcet.edu.in/CDC/index.php?bid=2&yid=4](http://drkcet.edu.in/CDC/index.php?bid=2&yid=4) [Assignments]
  
  **Link2:** [https://sites.google.com/site/drkcetece](https://sites.google.com/site/drkcetece)

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**Important Questions and reference page numbers for Unit - 5, 6, 7 & 8.**

**Telecommunication Switching Systems**

*Text Book:* Telecommunication Switching & Traffic Networks, by J E Flood

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### UNIT - 5

(Chapter 7, Page No: 176 to 203)

1. *Describe the call processing functions and operations [177 to 180]*

2. Explain the signal exchange diagram of a local call  
   
   [181 to 182]

3. What are symbols used in State Transition Diagram (STD) and build STD for a local call.  
   
   [182 to 185]

4. Discuss the functions of a Common control switching system[186 to 190]

5. Write about Reliability, Availability and Security [191 to 193]

6. *Discuss the functions of a SPC switching system. [193 to 195]*
UNIT – 6

(Chapter 8, Page No: 204 to 229)

1. Write about Customer line signaling. [205 to 206]

2. Explain the operation of Audio frequency junctions and trunk circuits [207 to 209]

3. Write about the following:
   a) Outband signalling [210]
   b) Inband signalling [211]
   c) PCM signalling [213]
   d) Inter-register signalling [214]

4. Explain the features & advantages of Common Channel signaling [218 to 219]

5. Explain CCITT No. 7 signaling system with its block schematic [525 to 526]

6. Write about Digital customer line signaling. [226 to 227]

UNIT – 7

(Chapter 9, Page No: 230 to 250)

1. Compare bus and ring networks [241]

2. a) Explain the modes of operation of Bus networks. [235 to 237]
   b) Give the frame formal of Ethernet frame. [237 to 238]

3. a) Distinguish between X.25 and frame relay networks. [243 to 245]
   b) List out the features of ATM networks. Explain the principle of operation of ATM switch. [248 to 250]

4. Problems
   (i) Example 9.2 [237]
   (ii) Example 9.3 [238]
   (iii) Example 9.4 [240]
   (iv) Example 9.5 [248]
UNIT - 8

(Chapter 10, Page No: 254 to 288)

1. Write a brief note on:
   a. Analog networks [255 to 257]
   b. Cellular networks [267 to 269]
   c. Intelligent Networks [269 to 271]
   d. Private Networks [272 to 273]

2. Write about the following:
   a) Integrated digital networks (IDN) [258 to 263]
   b) Integrated services digital networks (ISDN) [264 to 266]

3. Discuss the National & International numbering schemes. [273 to 277]

4. Explain the charging schemes. [277 to 279]

5. Write about the following:
   a) Routing [280 to 282]
   b) Automatic alternative routing [282 to 286]
   c) Network Management [286]

-----Prepared by
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