

Code No: **R41045**

R10

Set No. 1

IV B.Tech I Semester Supplementary Examinations, February - 2019 TELECOMMUNICATION SWITCHING SYSTEMS

(Electronics and Communication Engineering)

Time: 3 hours Max. Marks: 75

Answer any FIVE Questions All Questions carry equal marks

1	a) b)	Explain the working principle of cross bar switch with a neat diagram. Explain the elements of switching systems.	[8] [7]
2	a)b)	With a neat diagram, explain time multiplexed time switching in parallel in/parallel out switch configuration. Explain 2-stage time space switch.	[8] [7]
3	a) b)	Discuss different charging plans for a Telecommunication Service What is subscriber loop system?	[10] [5]
4	a) b)	Define grade of service and distinguish how GOS and blocking probability differs. Write short notes on In channel signaling scheme.	[8] [7]
5	a) b)	Explain data communication network architecture. Discuss topologies and transmission modes of a data communication circuits.	[7] [8]
6	a) b)	Draw and explain ISO-OSI reference model. Explain virtual switching concept.	[8] [7]
7	a) b)	Explain the various layers and frame format of ISDN model. Discuss the differences between ISDN and BISDN.	[8] [7]
8	a) b)	Explain about the HFC networks. Discuss the Virtual tributes and Higher rate of services in SONET.	[8] [7]