R18

ANURAG Engineering College
(An Autonomous Institution)
III B.Tech II Semester Supplementary Examinations, December-2024
TELECOMMUNICATION SWITCHING SYSTEMS
(ELECTRONICS AND COMMUNICATION ENGINEERING)

Time: 3 Hours   **Max. Marks: 75**

Section – A (Short Answer type questions)   (25 Marks)
Answer All Questions

		Course Outcome	B.T Level	Marks
1.	Define the following: a) fully connected network d) folded network	CO1	L2	2M
2.	Discuss the principles of cross bar switching.	CO1	L2	3M
3.	What do you mean by unit of traffic?	CO2	L1	2M
4.	Mention different applications of Grading.	CO2	L2	3M
5.	What is meant by combination switching?	CO3	L1	2M
6.	Differentiate reliability and security in Telecommunication switching.	CO3	L2	3M
7.	Write the principles of common channel signalling.	CO4	L1	2M
8.	Discuss in brief CCITT SS7.	CO4	L1	3M
9.	Illustrate flow control in packet switching.	CO5	L2	2M
10.	Explain cellular radio networks briefly.	CO5	L1	3M

Section B (Essay Questions)
Answer all questions, each question carries equal marks.   (5 X 10M = 50M)

			Course Outcome	B.T Level	Marks
11.	A)	What are the elements of a switching system? Explain with a neat diagram.	CO1	L2	10M
		OR			
	B)	Explain in detail Electronic switching system.	CO1	L2	10M
12.	A)	Explain about traffic performance with examples.	CO2	L3	10M
		OR			
	B)	With neat sketches discuss Two, Three and Four stage networks.	CO2	L3	10M
13.	A)	Explain Time division space switching and Time division time switching with neat sketches.	CO3	L2	10M
		OR			
	B)	Write short notes on i) State transition diagrams ii) Stored program control	CO3	L2	10M
14.	A)	Explain the concept of Inter-register signalling.	CO4	L2	10M
		OR			
	B)	Explain frame structure of HDLC.	CO4	L2	10M
15.	A)	Classify the networks based on area coverage and explain in detail.	CO5	L2	10M
		OR			
	B)	Explain asynchronous transfer mode and ATM switches with necessary diagrams.	CO5	L2	10M