Question Paper Code: R18A32EC05

R18

ANURAG Engineering College

(An Autonomous Institution)

III B.Tech II Semester Regular/Supplementary Examinations, June/July-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.	What is meant by Trunking in Telecommunications?	CO1	L2	2M
2.	Discuss Digital switching system in brief.	CO1	L1	3M
3.	What do you mean by congestion in Telecommunications?	CO2	L2	2M
4.	Define the following: i) queuing systems ii) grade of service	CO2	L2	3M
5.	Write the advantages of Stored program control.	CO3	L1	2M
6.	List the sequence of operations that take place in call-processing.	CO3	L1	3M
7.	Differentiate Outband and Inband Signalling.	CO4	L2	2M
8.	Explain FDM carrier systems in brief.	CO4	L1	3M
9.	Distinguish circuit and packet switching techniques.	CO5	L2	2M
10.	Write short notes on Frame relay.	CO5	L1	3M

Section B (Essay Questions)

Answer all questions, each question carries equal marks. **(5 X 10M = 50M)**

11. A)	Explain the principles of Crossbar Switching with 3x3 Cross bar Switching.	CO1	L3	10M
	OR			
B)	Discuss the Evolution of telecommunications.	CO1	L2	10M
12. A)	Explain lost-call systems in detail.	CO2	L2	10M
	OR			
B)	Discuss grading principles and explain the design of progressive grading.	CO2	L2	10M
13. A)	Explain Time multiplexed space switch and Time multiplexed time switch with neat sketches.	CO3	L2	10M
	OR			
B)	What is Combination Switching? Explain how it is employed.	CO3	L3	10M
14. A)	Explain in detail CCITT signalling system 6 and 7.	CO4	L2	10M
	OR			
B)	Write short notes on i) PCM signalling ii) Customer line signalling	CO4	L2	10M
15. A)	Compare the network topologies with neat diagrams.	CO5	L3	10M
	OR			
B)	With necessary diagrams explain ISDN.	CO5	L2	10M