## **ANURAG Engineering College**

(An Autonomous Institution)

## III B.Tech II Semester Regular/ Supplementary Examinations, June/July – 2024 COMPUTER NETWORKS

## **ELECTRONICS & 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.	Group the OSI layers by function.	CO1	L1	2M
2.		CO1	L1	3M
3.	Define HDLC.	CO2	L2	2M
4.	Define the term medium access control mechanism. What are the functions of MAC.	CO2	L2	3M
5.	List the advantages of wireless LAN's.	CO3	L1	2M
6.		CO3	L2	3M
7.	Define routing.	CO4	L2	2M
8.		CO4	L2	3M
	Write short note on application layer.	CO5	L1	2M
10.	• •	CO5	L2	3M
	Section B (Essay Questions)			
Answer all questions, each question carries equal marks.		(5	x 10M =	= 50M)
11. A)	i) What are the responsibilities of Presentation layer and Session	CO1	L3	5M
	layer of OSI model?	001	L2	5M
	ii) Write the advantages of optical fiber over twisted and coaxial cables.		22	2141
	OR			
В)	Explain the different Network topologies and their advantages in detail.	CO1	L3	10M
12. A)	What is the purpose of CSMA/CD. Explain it.	CO2	L3	10M
	OR			
B)	i) Obtain a 4-bit CRC code for the data bit sequence 11001011100	CO2	L3	5M
_,	using the polynomial $X^4+X^3+1$ .	002	L4	5M
	ii) Explain flow control mechanism using Sliding window protocol		D.	3141
13. A)	Discuss about Gigabit Ethernet with suitable diagram.	CO3	L3	10M
	OR			
B)	Explain the IEEE standard 802.11 in detail?	CO3	L3	10M
14. A)	i) How does UDP differ from TCP? List the applications of UDP.	CO4	L4	6M
,	ii) Explain the structure of TCP Header format.		L3	4M
	OR		113	-4141
B)	What are the motivation factors of IPV6? Explain in detail the IPV6 address structure?	CO4	L4	10M
15. A)	What are the protocols associated with WWW. Explain them.  OR	CO5	L3	10M
B)	i) Write short notes on Electronic Mail	CO5	T 2	53. <i>1</i>
رط -	ii) Discuss about HTTP in detail.	003	L3	5M
	11) Discuss about 111 11 in uctail.		L2	5M