



GIET UNIVERSITY, GUNUPUR - 765022
B. Tech (Sixth Semester Regular) Examinations, May - 2024
21BCMPC36001 - Computer Networks
(CSE - AIML)

Time: 3 hrs

Maximum: 70 Marks

(The figures in the right hand margin indicate marks)

PART – A**(2 x 5 = 10 Marks)**Q.1. Answer **ALL** questions

	CO #	Blooms Level
a. What is throughput of a network?	CO1	K1
b. Find the parity of the data words “10101” and “0000”.	CO2	K3
c. What is Piggybacking?	CO2	K1
d. What is the difference between multicasting and broadcasting ?	CO3	K2
e. What is port address? How many bits are used for it?	CO4	K2

PART – B**(15 x 4 = 60 Marks)**Answer **ALL** questions

	Marks	CO #	Blooms Level
2. a. Define topology? Write different types of topologies used in computer network and its advantages.	12	CO1	K1
b. Differentiate between Digital and Analog signal.	3	CO1	K1
(OR)			
c. Draw and explain OSI model of computer network.	12	CO1	K1
d. How many links are required to make mesh topology if number of nodes are 13 ?	3	CO1	K1
3.a. Using Hamming code to show the position of error if data is sent 110011 and data is received 111011.	10	CO2	K2
b. Write a brief notes on HDLC protocol.	5	CO2	K1
(OR)			
c. What is flow control? Discuss different type of flow control mechanisms.	10	CO2	K1
d. Explain CSMA/CA and CSMA/CD in random access protocol.	5	CO2	K1
4.a. Draw the IPv4 Datagram format and define the role of each field.	10	CO3	K1
b. Distinguish between IP v4 address from IP v6 address.	5	CO3	K2
(OR)			
c. Describe the IPv6 packet format.	10	CO3	K1
d. Write short notes on Bluetooth wireless network.	5	CO3	K1
5.a. Describe FTP role in application layer.	8	CO4	K1
b. Briefly explain the functions of application layer.	7	CO4	K2
(OR)			
c. How is DNS used to access the internet ?	8	CO4	K2
d. Write short notes on HTTP.	7	CO4	K2

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