GIET UNIVERSITY, GUNUPUR – 765022

M.C.A (Second Semester) Regular Examinations, May – 2024

MCA23203 – Computer Networks

Time: 3hrs   Maximum: 60 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.	Write the components of data communication?	CO1	K1
b.	Define bit stuffing.	CO2	K2
c.	What is piggybacking.	CO3	K1
d.	Define Burst error.	CO4	K2
e.	Explain subnetting in IPV4.	CO5	K2

PART – B   **(10 x5=50 Marks)**

Answer **ALL** questions

		Marks	CO #	Blooms Level
2. a.	Define topology. Write different types of topologies used in computer network and its advantages.	10	CO1	K2
	(OR)			
b.	Explain briefly about TCP/IP protocol suite.	10	CO1	K2
3.a.	Explain the various types of Digital to Analog Signal Conversion techniques.	7	CO2	K2
b.	Differentiate between digital and analog signal.	3	CO2	K4
	(OR)			
c.	Explain switching techniques and its advantages.	7	CO2	K2
d.	Write short notes on Guided media used for data communication.	3	CO2	K1
4.a.	Using Hamming code to show the position of error if data is sent 110011 and data is received 111011.	10	CO3	K4
	(OR)			
b.	Apply CRC method to check whether the data 11100101 is having any error or not where the divisor polynomial is given as X^3+X+1.	10	CO3	K4
5.a.	Define different types of controlled access protocols.	7	CO4	K2
b.	Write stop and wait ARQ protocol.	3	CO4	K1
	(OR)			
c.	Explain Channelization techniques.	7	CO4	K2
d.	Distinguish IPv4 address from IPv6 address.	3	CO4	K4
6.a.	Write short notes on Quality of service	5	CO5	K1
b.	Describe FTP role in application layer.	5	CO5	K2
	(OR)			
c.	Briefly explain the functions of application layer.	5	CO5	K2
d.	How is DNS used to access the internet ?	5	CO5	K1

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