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SUBJECT CODE NO: - Y-2105 FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. T.Y (Sem-VI)

Examination March / April - 2023

Computer Science Paper-CSO-19 (Data Communication & Networking)

[Time:	1:30 Hours] [Max. Marl	ks: 50]
N. B	Please check whether you have got the right question paper. 1) Attempt all questions.	
	2) All questions carry equal marks.	
Q1	a) Explain with neat diagram simplex, half duplex and full duplex data transmission mode.	10
	b) Explain with neat diagram ASK and FSK Digital to analog conversion technique OR	: 10
	a) What is transmission media? Explain in brief different types of transmission media.	10
	b) What is network Topology? Explain with neat diagram different network	10
	topology.	
02.80	a) Explain with neat diagram serial and parallel data transmission.	10
<u> </u>	b) Explain with neat diagram third generation (3G) mobile system	10
	OR OR	
	Write short note (any four)	20
	i. Modulation	
	ii. Cable modem	
	iii. Spectrum Allocation	
	iv. PSK	
	v. Optical fiber cable	
	vi. UTP cable	
Q3 M	Iultiple choice questions	10
	1) Protocols are set of rules to govern.	
	a) Communication	
	b) Standards	
	c) Metropolitan communication	
	d) None	

2)	A	connection produces a dedicated link between two devices
	a)	Primary b) Multipoint c) Point-to-Point d) Secondary
3)	Hybrid	I network includes combination of
	a)	Nodes b) Devices c) Topologies d) None
4)	Bus, R	ing and star Topologies are mostly used in the
	a)	LAN b) MAN c) WAN d) Internetwork
5)	Microv	waves having frequency between
	a)	1 and 300 GHZ
	b)	3 KHZ and 1GHZ
	c)	300 KHZ and 1 GHZ
	d)	1GHZ and 300 GHZ
6)	Most c	ommon unshielded twisted pair connector is
	a)	RJ 45 b) RG 59 c) RG 58 d) RG 11
7)	into di	conversion is process of charging one of characteristics of analog signal gital data
	a)	Analog to analog
	b)	Digital to digital
	c)	Digital to analog
	d)	Analog to digital
8)	When	the modelling signal control the frequency of carrier, we get
	a)	Phase modulation
	b)	Amplitude modulation
	(c)	Frequency modulation
	d)	Any of above
9)	The Th	nird generation (3G) of mobile phone uses:
	a)	Analog voice c) Hybrid
	b)	Digital voice d) Digital voice and data
10)) DSL st	ands for
	a)	Digital subscriber line c) Data subscriber line
	b)	Digital switched line d) Data switched line