M.Sc.(Computer Science) - I Second Semester (Old) 2MSC3 - Paper-III: Digital Communication and Networking

	ages : e : Thr	ree Hours * 3 8 1 6 *	GUG/W/18/2863 Max. Marks : 80
	Note	es: 1. All questions are compulsory and carry equal marks. 2. Draw a neat labelled diagram and use supporting data who 3. Avoid vague answers and write specific answers related to	
1.		Either:	
	a)	Explain different types of transmission impairment in detail.	8
	b)	Describe Data link control protocol in detail.	8
		OR	
	c)	Explain Analog and Digital Data Transmission in detail.	8
	d)	Write short notes on: i) Flow Control ii) Error Control	8
2.		Either:	
	a)	Explain Virtual Circuits and Data Grams in detail.	8
	b)	Write short notes on: i) X.25 ii) Traffic Control	8
		OR	
	c)	Explain Circuit switching with suitable diagram.	8
	d)	What is Medium Access Control Protocols? Explain.	8
3.		Either:	
	a)	What is Internetworking? Explain the principles of Internetworking	g. 8
	b)	Write short notes on: i) Routers ii) Bridges	8
		OR	
	c)	Explain TCP/IP Protocol suite in detail.	8
	d)	What is connection oriented Internet-working? Explain in detail.	8

4.		Either:	
	a)	What are transport services? Explain in detail.	8
	b)	Explain Integrated digital Network in detail.	8
		OR	
	c)	What is session? Explain the important characteristics of session.	8
	d)	What is ISDN? Describe the transmission structure of ISDN.	8
5.		Solve all the questions.	

a) Explain Error detection technique in short.

b) What is Traffic Control? Explain.

c) Explain Internet Protocol in short.

d) Describe ISDN Protocols.
