## Paper-V

## **Data Communication and Network**

Tim	ne: Three Hours [Maximum Ma	rks : 100
Note	te:- Attempt any FIVE questions.	
1.	(a) What is data and information? Explain vario performed by a data communication system.	
	(b) What is a signal \( \frac{\dagger}{\text{Explain various types of signal transmission.}} \)	for data
	(c) What is meant by bandwidth and spectrum?	<i>y</i> 1, 4
2.	(a) What is multiplexing? Explain various to multiplexing.	
	(b) Write a note on Fourier Analysis.	6
	<ul><li>(a) What do you mean by a Modem? Why is it a necessin data communication? Explain working of a model.</li><li>(b) What do you mean by modulation? Explain various modulation techniques.</li></ul>	odem.10
	What is a Computer network? Explain goals of a design. Why computer network is important as compa distributed system?	
	Explain the characteristics and applications of various transmission media used for data communication.	types of
	(a) Write a complete note on Asynchronous Transfer M	

(b) Differentiate among the following.

		(i) Circuit switching
		(ii) Packet switching
		(iii) - Message switching.
7.	(a)	Explain Intergrated services digital network with its
	拉拉	advantages. Also define the relationship between ISDN and
		Internet.
	(b)	Write a short note on VSAT.
8.	(a)	Explain various IEEE standards data Interface.
	(b)	Write a note on fibre distributed data Interface.
9.	(a)	What is point to point protocol? Explain its features and
		functions in detail with its frame format.
	(b)	Write a short note on X.25.
10.	Cri	tically analyse OSI reference model. 2
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