[Max Marks:80]

N.B. :	<ul><li>(1) Question No 1 is Compulsory.</li><li>(2) Attempt any three questions out of the remaining five.</li><li>(3) All questions carry equal marks.</li><li>(4) Assume suitable data, if required and state it clearly.</li></ul>	Sollar.
Q1.	Attempt any FOUR	[20]
	a Differentiate between LAN, MAN & WAN	[05]
	b Explain HUB & Switch with the help of suitable diagram	[05]
	c Differentiate between Pure Aloha & Slotted Aloha	[05]
	d Draw IP Version 4 header Format	[05]
	e Explain Open Loop Congestion Control Technique	[05]
Q2.	<ul> <li>a Explain various network topologies with the help of suitable diagram &amp; list the advantages &amp; disadvantages of each network topology</li> <li>b Explain various guided &amp; unguided transmission media with the help of suitable diagrams. Also compare the major difference between guided &amp; unguided transmission media with the help of suitable diagrams.</li> </ul>	le [10]
Q3.	transmission media a Explain Stop-And-Wait ARQ Protocol & list the advantages & disadvantages of Stop-And-Wait ARQ Protocol	of [10]
CIED,	b Compare Stop-And-Wait ARQ, Go-Back-N ARQ & Selective Repeat ARQ flow control techniques	w [10]
Q4.	a Explain Non-Persistent, 1-Persistent & P-Persistent CSMA with the help of suitable diagram	
65	b Explain Time Slot Interchange Switch with the help of suitable diagram	[10]
Q5.	<ul><li>a Explain Crossbar Switch with the help of suitable diagram</li><li>b Explain UDP header with the help of suitable diagram &amp; list the applications of</li></ul>	[10] of [10]
Q6.	UDP a Explain Domain Name System (DNS) in application layer with the help of suitable diagram	of [10]
	b Write a short note on ADSL	[10]

13203

**Duration: 3hrs**