	-	Duration: 3hrs [Max Marks: 80]	
N.F	3. :	(1) Question No 1 is Compulsory.(2) Attempt any three questions out of the remaining five.(3) All questions carry equal marks.(4) Assume suitable data, if required and state it clearly.	
1		Attempt any FOUR	[20]
	a	Draw and explain frame format of SONET.	
	b	Compare Ad-hoc network and infrastructure network.	A
	c	What is Intra and inter domain Routing? Explain in brief.	
	d	Write a short note on IPTABLES.	
	e	Write a short note on SIP.	
2	a	What is the need of DWDM? Explain working principle of DWDM along with advantages and disadvantages?	[10]
	b	Explain the different IEEE 802.11 services and write a short note on CSMA/CA.	[10]
3	a	Write a note on congestion control and quality of service in ATM. Explain	[10]
		different QOS parameters in ATM.	
	b	Explain OSPF in detail. Compare RIP and OSPF.	[10]
4	a	Write a note on Multicast Routing Protocols.	[10]
	b	What is a firewall? Explain different types of firewalls in detail.	[10]
5	a	What are network security threats and safeguards? Explain in detail.	[10]
	b	Write a note on Network design layers. Differentiate Ubiquitous computing and	[10]
		Hierarchical computing.	
6	a	What is need for compression? Explain different compression techniques in	[10]
	4	detail	
	b	Classify unicast routing protocol. Explain exterior routing protocol in brief.	[10]
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