		Duration: 3 Hours [Marks:	80]
N.B.	:	 Question No 1 is Compulsory. Attempt any three questions out of the remaining five. All questions carry equal marks. Assume suitable data, if required, and state it clearly. 	
1		Attempt any FOUR	[20]
a		What is Software Defined Networking (SDN)?	[20]
b		Explain the Real Time Transport Control Protocol (RTCP) message types.	
c		Describe each field of Secure Shell (SSH) packet format with diagram.	
d		Explain Virtual Private Network in brief with diagram.	
e		Compare OSI and TCP/IP protocol suite.	27
2 a		Explain concepts of device provisioning, data collection, migration and	[10]
		configuration management with respect to network automation.	30
b		What are the steps involved in image compression using JPEG standard.	[10]
3 a		What is a firewall? Explain packet filter and proxy firewall with necessary	[10]
		diagrams.	
b		Explain IoT protocol layer diagram with protocols at each layer.	[10]
4 a		Describe each field of Real Time Transport Protocol (RTP) packet header format	[10]
T 4		with diagram?	[IV]
b		Explain DHCP packet format with diagram.	[10]
5 a		Explain query and response messages in DNS with header format.	[10]
h		Explain Differentiated Services (DS) with respect to Quality of Service (QoS).	[10]
		Explain DS field, per-hop behavior and traffic conditioner with respect to DS.	[IV]
6 a		What is Voice over IP? Explain messages and address formats of Session	[10]
\$0.		Initiation Protocol (SIP)? How a simple session of VOIP happen using SIP?	[]
b		Explain Pretty Good Privacy (PGP) protocol with respect to application layer	[10]
		security.	[-4]

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