## Nepal College of Information Technology Balkumari Lalitpur

Assessment 2014

Co	ogramme: IT urse: Computer Networks mester: VI	FM: 70 Time: 2 hrs.
Candidates are required to give their answers in their own words as far as practicable. The figure in the margin indicates full marks.		
1.	(a) Define Computer Networks and its applications. Discuss the ISDN architectures [8]	N protocol with its
	(b) Discuss various Network Topologies and network models [7]	
2.	<ul><li>(a) Why protocol is required in communication system? Discuss the design with a suitable example.</li><li>[7]</li></ul>	n issues of protocol
	(b) Discuss the TCP/IP protocol stack with a suitable example. [8]	
3.	(a) Discuss various techniques to provide error and flow control with a suital [7]	ble example.
	<ul><li>(b) Differentiate Persistent and Non Persistent carrier sense strategies. Desi CSMA/CA.</li><li>[8]</li></ul>	ign an algorithm for
4.	(a) Discuss the role of Layer 3 device, what Is ATM? Discuss about Swin Computer Network. [7]	tching techniques in
	(b) Encode the data 1101101 using Hamming code techniques, If 10101110 code word at receiver end, check whether the error has occurred or not u method [10]	
5.	Discuss about Ethernet frame format [4]	
a) (b) (c) (d) (e) (f) (f) (g)	Write Short Notes (ANY Two) 802.15 802.2 802.4 802.5 802.11 b/g/n/a UTP, STP, Baseband and broadband Co axial cable MAC address	[2 x 2]