Total No. of Questions: 10]

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Roll No

EI - 601

B.E. VI Semester

Examination, December 2014

Data Communication and Computer Networks

Time: Three Hours

Maximum Marks: 70

PTO

Note: Attempt any five questions. All questions carry equal marks. Assume suitable data wherever necessary.

Unit - I

1.	a)	Explain simplex and half duplex modes of	of transmission
		and their application.	7

b) Differentiate between FDM and WDM.

OR

 a) Explain the basic components of data communication and their characteristic.

b) Differentiate between synchronous and asynchronous modes of transmission.

Unit - II

3.	a)	Explain RS 449 standard.
	b)	Explain RS 232 C standard

OR

4. a) Explain ISDN and its applications.

b) Explain MODEMS applications and their types.

Unit-III

5.	a)	Differentiate between circuit switching and messag switching.
	b)	Explain four functions of data link layer.
		OR
6.	a)	Explain TCP/IP protocol suite.
	b)	Explain four functions of internal layer.
		Unit - IV
7.	a)	Differentiate between SDLC and HDLC.
	b)	Explain sliding window protocol.
		OR
8.	use	sume the CRC generator polynomial of $x^5 + x^4 + x^2 + 1$ is ed of provide error checking, compute the bit stream that libe transmitted if a message 111000111000 is sent.
		Unit - V
9.	a)	Explain medium access control techniques.
	b)	Explain CSMA/CD and CSMA/CA.
		OR
10.	a)	Differentiate between Gigabit ethernet and 10 Gigabit ethernet.

Explain token passing and polling.