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Total number of printed pages – 2	B. Tech
Registration No. :	

## Sixth Semester (Back) Examination – 2013

## COMPUTER NETWORK

BRANCH: CSE, IT

QUESTION CODE: B340

Full Marks - 70

Time: 3 Hours

Answer Question No. 1 which is compulsory and any five from the rest.

The figures in the right-hand margin indicate marks.

1. Answer the following questions:

2×10

- (a) Why are protocols needed?
- (b) What are the responsibilities of the transport layer in the Internet model?
- (c) What is peer-to-peer process?
- (d) What is Baseband transmission?
- (e) Define the term "Latency".
- (f) What is Data rate?
- (g) Define piggybacking.
- (h) What is the purpose of cladding in an optical fiber?
- (i) Define blocking in a switched network.
- (j) What is single-bit error?
- (a) How are OSI and ISO related to each other?

(b) What does the Nyquest theorem have to do with communications?

5

5

P.T.O.

3.	(a)	What is the difference between Parallel and serial transmission?	5
	(b)	Define and discuss the role of Carrier signal in analog transmission.	5
4.	(a)	Describe the goal of multiplexing.	5
	(b)	What is the difference between omnidirectional waves and unidirection waves?	al 5
5.	(a)	What is the role of the address field in a packet traveling through virtual-circuit network?	a 5
	(b)	How is the simple parity check related to the two-dimensional parity check	?
6.	(a)	Compare and contrast the Go-Back-NARQ Protocol with Selective-Repe	at
		ARQ.	5
	(b)	Why collision is an issue in a random access protocol but not in controlled	d
		access or channelizing protocols PExplain.	5
7.	(a)	How does the Ethernet address IASB:3CAD:5E:6F appear on the line binary?	in 5
	(b)	Discuss the different types of mobility in a wireless LAN.	5
8.	(a)	Compare and contrast the fields in the main headers of IPv4 and IPv6.	5
	(b)	What is a proxy server and how is it related to HTTP? Explain	5