Roll No.

Total Pages : 02

1767 GSQ/M-20 COMPUTER SCIENCE Paper II Computer Networks

Time : Three Hours]

[Maximum Marks: 40

Note : Attempt Five questions in all. Q. No. 1 is compulsory. In addition to compulsory question, student will have to attempt *four* more questions, selecting *one* question from each Unit. All questions carry equal marks.

(Compulsory Question)

1.	(a)	Explain the terms : Hub and Switch.	2
	(b)	Differentiate between Guided and Unguide	ed
		Transmission Media.	2
	(c)	Write a short note on Ethernet.	2
	(d)	Write a short note e-Mail and WWW Services.	2

Unit I

2. (a)) De	fine	Computer	Network.	Explain	various	types
	of	Con	nputer Net	works.			5
(b)) Dra	aw 1	abelled dia	ıgram of T	CP/IP Pr	otocol.	3
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3.	Explain (OSI	reference	model	in	detail.	Also	discuss	its
	advantage	es ar	nd disadva	antages.					8

Unit II

4.	Explain	various	Modulation	Techniques.	8
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What do you understand by multiplexing ? Explain different types of multiplexing techniques.
8

Unit III

6.	Expla	ain the following :	
	(a)	ALOHA Protocol	
	(b)	Sliding Window Protocol.	8

Explain various design issues of Data Link Layer.
Elaborate on Error Detection and Correction methods. 8

Unit IV

8.	Which layer supports routing ? Discuss various	routing
	algorithms with the help of examples.	8
9.	Explain various Network Security issues.	8

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