Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

		over this wer any FIVE full quotione, analysing ONE full question from each mo	aute.
ages. Il be treated as malpractice.	1 a.	Differentiate between : Module-1	
lal	(6)	(i) HTTP and FTP (ii) SMTP and HTTP (iii) UDP and TCP	(10 Marks)
as n	(b)	Explain Cookies and Web Caching with diagram.	(10 Marks)
ed a		OR OR	
real	2 a.	Describe in detail the services offered by DNS and explain DNS message format.	(00 M1 -)
ages.	b.	Compare HTTP and SMTP.	
-	c.	Define Socket. Demonstrate the working of TCP-Socket.	(04 Marks)
ank 0, w		Define socket. Demonstrate the working of TCP-socket.	(08 Marks)
		Madula 2	
ning+%	3 a.	state of the state of the sender side and one state of	he receiver
mai.		side of rdt2.0	(10 Marks)
e re	(6	With a neat diagram, demonstrate the working of Go-BACK-N protocol.	(10 Marks)
itte			
13 C) S	4 a	OR  Describe TCP connection management with help of discourse	
in in	b	Describe TCP connection management with help of diagram.  Interpret the FSM to TCP congestion control.	(10 Marks)
ross qua	U	. Interpret the 1 SW to 1 CF congestion control.	(10 Marks)
al c or e		Module-3	
gon nd/	5 a.	Explain the Implementation of virtual circuit services in Computer Network.	(07 Marks)
dia or a	Ь.		(06 Marks)
ra v; luat	c.	Explain Distance vector algorithm using three nodes network.	(07 Marks)
r answers, compulsor ly draw, diagonal cross lines on the remaining entification, appeal to evaluator and/or equa ions written eg. 42+8		OR	
10 10	6 a	Explain Dijkstra's algorithm with example.	(10 Mayles)
puls	b.	Explain various broadcast routing algorithms.	(10 Marks)
abl	0.	Explain various bloadeast routing algorithms.	(10 Marks)
rs. c		Module-4	
icat	7 (a.)	Explain Feistel structure of DES Algorithm.	(10 Marks)
E E	- (b.	Explain RSA Algorithm with an example.	(10 Marks)
		OD	
of		OR	ra aqual
==		prove that the two keys k1 and k2 and	(10 Marks)
2. Any reveal	b.	Discuss the following:	(10 Marks)
D C D	0.	(i) Secure Hash Algorithm (ii) Firewalls.	(10 Marks)
ō ₹		(i) Secure Hash Algoridan (ii) The wans.	(10 Marks)
0		Module-5	
to	9 (3.	Explain briefly how DNS redirects a users request to a CDN server.	(10 Marks)
-	(b).	With neat diagram explain the naïve-architecture for audio/video streaming.	(10 Marks)
orta			
Importar : Note	10	OR	
	10 a.	Write a short notes on:	(10.34
		(i) Netflix video streaming platform (ii) VOIP with Skype.	(10 Marks)
	b.	With neat diagram explain the RTP header fields.	(10 Marks)