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GANPAT UNIVERSITY

B. TECH. SEMESTER V (EC) ELECTRONICS & COMMUNICATION ENGINEERING REGULAR EXAMINATION, NOV / DEC-2011 EC 504:- COMPUTER NETWORKS

TIME: 3 HOURS

TOTAL MARKS: 70

Ouer-5

INSTRUCTION:-

- 1. Attempt all questions.
 - 2. Answers to the two sections must be written in separate answer books.
 - 3. Figures to the right indicate full marks.
 - 4. Assume suitable data, if necessary.

SECTION-I

1	(A)	Explain the IP protocol with its header format and state purpose of each field.	6
	(B)	Write short note on DNS. gmo Dasigu (a) phay and tail (a)	6
		OR	
10	(A)	Explain the distance vector routing algorithm using suitable example.	6
	(B)	Explain the RARP, ARP, ICMP and IGMP protocol.	6
2	(A)	Explain the flooding and reverse path forwarding in Network layer	4
4	(A)		4
	(B)	Explain the Hierarchical algorithm with example.	4
	(C)	Write short note on CRYPTOGRAPHY.	4
		OR	
2	(A)	What is silly window syndrome in TCP? Explain it in detail.	4
	(B)	Write short note on URL.	4
	(C)	Explain the HTTP and HTML in application layer.	4
		(B) I the control of the true space caused by	
3	(A)	Differentiate the UDP AND TCP. Also explain the congestion control in	7
		TCP using start, additive increase and multiplicative decrease.	
	(B)	Explain the distance Link state routing algorithm.	4

SECTION-II

Que:-4	(A)	What is the role of MAC sub layer? Compare pure ALOHA protocol and slotted ALOHA protocol.	6
	(B)	Discuss: Bridge, Router, Hub, Switch, and Gateway. OR	6
Que:-4	(A)	List various transmission media used in networking. Explain optical fiber cable.	6
	(B)	Explain CSMA protocol.	6
Que:-5	(A) (B)	Explain HDLC protocol with its three different kind of frame. State the difference and similarities between circuit switching and packet switching. OR	5
Que:-5	(A)	Explain Go back N ARQ sliding window protocol with suitable example. Compare Go back N ARQ with selective repeat ARQ.	7
	(B)	List the various topologies. Compare ring and mesh topology.	4
Que:-6	(A)	State the difference between OSI and TCP/IP reference model standard.	4
	(B)	Discuss various methods of framing in data link layer.	8

END OF PAPER

Differentiate the UDP AND TEP SANSO explain TCP using start, additive increase and multiplicate