GANPAT UNIVERSITY

B. Tech. Semester: VI (Computer Engineering/Information Technology)

Student Exam No._

Regular Examination May – June 2013

2CE602/21762 Network Protocols & Programming

Total Marks: 70

Instruction:	1 Figures to the right indicate full marks	
	2 - 1	

Time: 3 Hours

5

2 Each section should be written in a separate answer book

3 Be precise and to the point in your answer

		Section – I	
Que. – 1	An	swer the following.	
	Α.	Explain forwarding techniques of the packets in detail.	6
	B.	Explain ARP packet format in brief.	6
		OR	
Que 1	An	swer the following.	
	Α.	Explain IP datagram in brief.	6
	B.	Explain types of IGMP messages in detail.	6
Que. – 2	An	swer the following.	
	A .	Explain following query message generated by ICMP.	6
		a. Router Solicitation or Advertisement	
		b. Echo request or reply	
	B.	A packet has arrived in which the offset value is 100, the value of HLEN is 5	3
		and the value of the total length field is 100. What is the number of the first	
		byte and the last byte?	
	C .	Explain process to process communication in brief.	2
		OR	-
Que 2	Ans	swer the following.	
	A .	Explain following error message generated by ICMP.	6
		a. Source quench	
		b. Redirection	
	B .	In a datagram, the M bit is zero, the value of HLEN is 5, the value of total	3
		length is 200, and the offset value is 200. What is the number of the first byte	
		and number of the last byte in this datagram? Is this last fragment, the first	
		fragment or a middle fragment?	
	C.	Explain: IP Flags	2
Que 3	Ans	swer the following.	
	А.	What is BGP? Why do we use BGP protocol? Explain external and internal	4
		BGP.	
	В.	Explain two node instability and three node instability	4
	C.	Discuss Reassembly Table and reassembly Module of IP package with	4
		algorithm	

Section - II

Que. - 4 Answer the following. 6 A. Discuss Proxy ARP with suitable example. 6 B. Discuss Times in RIP in detail. OR Que. - 4 Answer the following. Explain types of BGP messages in detail. 6 A. 6 Discuss RIP message format in detail. **B**. Answer the following. Que. - 5 6 A. Discuss: TELNET B. Explain Three-way handshaking mechanism of TCP connection. 5 establishment in detail. OR Que. - 5 Answer the following. 6 A. Discuss: DNS B. Explain Three-way handshaking mechanism of TCP connection termination 5 in detail.

Que. - 6 Answer the following.

- A. Differentiate FTP and TFTP.
- B. Differentiate TCP and UDP.
- C. Explain UDP operation in detail.

END OF PAPER

4

4

4