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BCS-061

522	BACHELOR OF COMPUTER APPLICATIONS Term-End Examination			
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\bigcirc		December, 2013		
	В	CS-061 : TCP / IP PROGRAMMING		
Time	: 2 hc	ours Maximum Marks	* 60	
Note		uestion no . 1 is compulsory . Answer any three ne rest.	from	
1.	(a)	Consider the given network address 132.21.0.0. Find its class and the range of class.	2	
	(b)	Differentiate between Subnetting and Supernetting.	3	
	(c)	Discuss different security levels implemented in SNMP.	4	
	(d)	Explain the link state Routing algorithm. Explain its process of finding the optimal path.	6	
	(e)	Write a program in C language for TCP echo client and server.	8	
	(f)	Explain the purpose of listen system call. Write its syntax.	3	
	(g)	Show by calculation, how many hosts per network each IP address class (B and C only) can have with an example of each.	4	
2.	Diffe (a) (b) (c) (d)	erentiate between the followings : ARP and RARP read () and write () system call ntohl () and ntohs () Broadcasting and multicasting	10	

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3.	(a) (b)	Draw UDP packet format. Describe purpose of each field of the UDP header. Explain TCP Connection Termination process using a diagram.	5 5
4.	(a) (b)	Why is IP called a best-effort delivery protocal? Justify your answer. Explain the process of flow control in TCP using sliding windows protocol.	4 6
5.	(a)	Define the following : (i) Structure of socket address (ii) Byte Ordering	5
	(b)	 Differenciate between 'Domain Name System' and ''Dynamic Domain Name System'. Also, explain the purpose of following DNS utilities : (i) Host (ii) Nslookup (iii) Hig 	5

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