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BCS-052

P.T.O.

BACHELOR OF COMPUTER APPLICATIONS (BCA) (Revised)

Term-End Examination June. 2016

00676

BCS-052: NETWORK PROGRAMMING AND ADMINISTRATION

Time: 3 hours Maximum Marks: 100 Note: Question number 1 is compulsory. Answer any three questions from the rest. 1. A block of address is granted to a small (a) organisation. One of its addresses 205.16.27.39/28. What is the first address in the block? 5 (b) Explain the management components of SNMP. 8 Explain the 'MAC Sub-layer format' and (c) 'Addressing mechanism'. 8 (d) Find the error, if any, in each of the following IPv4 addresses: 4 (i) 111.56.036.89 (ii) 226.14.8.5.3 (iii) 75.14.14.14 (iv) 111100.1110.111.001 BCS-052

	(e)	What is a DNS Server ? Differentiate between Primary and Secondary DNS Servers.	10
	(f)	Differentiate between POP and IMAP.	5
2.	head purp	w the header of TCP and UDP. Compare the er fields of TCP and UDP. Explain the ose of fields which are similar between TCP UDP.	20
3.	(a)	Why is remote administration needed? Explain.	5
	(b)	Explain the different components of a <i>Passwd</i> file in Unix/Linux.	5
	(c)	Discuss the various Disk Management functions in Windows. Write the step-by-step procedure to open disk management option.	10
4.	Write an algorithm (using socket programming system calls) each for UDP client and UDP server, as per the following specifications:		20
	(a)	UDP client will initiate the communication and send any alphanumeric character to the server.	
	(b)	UDP server accepts that character and as a reply sends the ASCII value of that	

Note: Make suitable assumptions, if any.

character to the client.

- (a) FTP
 - (b) Byte Ordering
 - (c) Gateways
 - (d) Distance Vector Routing