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**BCS-052** 

## **BACHELOR OF COMPUTER APPLICATIONS** (BCA) (Revised)

## 02710 Term-End Examination December, 2017

## **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)	) Why is CIDR need help of an example.	ed ? Explain with the	
<b>(b</b> )	Explain the working	of ARP and RARP. 5	
(c)	Explain the purpose system calls of data	e of read() and write() transfer.	
( <b>d</b> )	) What is count-to Distance Vector rou		
(e)	What are the bas SNMP protocol? Ex	sic messages used in plain. 5	
<b>(f)</b>	Explain the syn Traditional File per	mbolic notations of missions. 5	
(g)		Differentiate between sockets. Explain with	
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	(h)	What is the purpose of Dynamic Host Configuration Protocol (DHCP)? List activities between DHCP server and DHCP client.	5
		Citoria.	_
2.	(a)	Explain TCP connection set-up using three-way handshake, with the help of a diagram.	10
	(b)	What are Primary and Secondary DNS servers? How does the DNS server work?	
		Explain with the help of a diagram(s).	10
3.	(a)	Explain the sequence of system calls to implement TCP client and server, using an	
		appropriate diagram.	10
	(b)	Define Unicasting, Broadcasting and Multicasting.	5
	(c)	What are the qualities of service features in Internet Protocol?	5
4.	(a)	Discuss the tasks/services for which remote	
	<i>(</i> <b>1</b> )	administration needs to be done.	10
	(b)	Explain the following in the context of	10
		network security:	10
		(i) System Accounts	
		(ii) Managing Users	
		(iii) Managing Groups	
		(iv) Password Policy	

- 5. Explain the following with the help of suitable examples/diagrams:
- 20

- (a) ICMP Messages
- (b) Use of Type of Service (TOS) and Fragment Offset in IP Header
- (c) Concept of Byte Order Conversion
- (d) Stateless Operation and NFS Daemons in the context of Network File System

