No. of Printed Pages: 3

BCS-061

BACHELOR OF COMPUTER APPLICATIONS (BCA) (Revised)

Term-End Examination

June, 2018

00475

BCS-061: TCP/IP PROGRAMMING

Time : 2 h	nours Maximum Marks : 60	Maximum Marks : 60	
Note: Question no. 1 is compulsory. Answer any three questions from the rest.			
1. (a)	Which field(s) in IP header is/are used for congestion control? Explain how they are used in congestion control.	•	
(b)	Discuss the significance of different fields in the DNS message.	•	
(c)	Differentiate between ARP, RARP and BOOTP.	•	
(d)	Explain the features and functions of 802·11 MAC Sublayer.	;	
(e)	Compare between point-to-point channels and broadcast channels with the help of an example for each.	!	
DOC 064	4		

- What is Byte Ordering? Explain the 2. (a) function used by byte ordering conversion. 5 (b) Explain the working of FTP. Give reason, why FTP uses two connections of TCP. 5 3. (a) Differentiate between Distance Vector Routing and Link State Routing. 6 (b) the svntax along with Write parameters used by the following socket system calls: 4 shutdown() (i) bind() (ii) (iii) listen() (iv) htons()
- 4. Write an algorithm for both UDP client and UDP server, based on the following requirements: 10
 - Client program prompts the user to enter any three numbers and send these numbers to the server program.
 - Server will return back the largest number to the respective client.

5. Write short notes on the following:

 $4 \times 2 \frac{1}{2} = 10$

- (a) TCP/IP Model
- (b) SNMP
- (c) TCP Header
- (d) ICMP