| CS-69 |

BACHELOR OF COMPUTER APPLICATIONS (BCA) (Pre-Revised)

Term-End Examination

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June, 2017

CS-69 : TCP/IP PROGRAMMING

Time : 2 hours   *Maximum Marks : 60*

Note : *Question number 1 is* **compulsory.** *Answer any* **three** *questions from the rest.*

1. (a) What is IP address ? Briefly explain IP address format.   5

   (b) Write all the steps performed by the ARP in the case where a host or a router needs to find the physical address of another host or router.   5

   (c) Explain the components of URL.   3

   (d) Explain the purpose for which *getservbyname* function is used in socket programming.   3

   (e) What is client server model ? Explain the activities of server in brief.   6

   (f) What is UDP ? Explain UDP header format with the help of a diagram.   8

2. (a) Write the syntax and meaning of two functions; one which converts data from the host format to the network format and the second from the network format to the data format respectively. 5

(b) Explain the use of Fragment Offset in fragmentation of IP datagram. 5

3. Write the syntax and purpose of the following system calls : 10

(a) socket( )

(b) bind( )

(c) accept( )

(d) listen( )

4. (a) Briefly explain the method used by a user to connect to remote host using FTP. 5

(b) What is class B network ? How many class B networks are possible when it uses 20 out of 32 bits to define the network address. 5

5. Explain the following briefly : 10

(a) Telnet

(b) Subnet mask

(c) DNS

(d) IP header

(e) TCP connection