BCS-061

BACHELOR OF COMPUTER APPLICATION (BCA)

Term-End Examination

June, 2020

BCS-061 : TCP/IP PROGRAMMING

Time : 2 Hours   *Maximum Marks : 60*

Note : (i) *Question No. 1 is compulsory.*

(ii) *Attempt any three questions from the rest.*

1. (a) Explain TCP connection establishment process with the help of a diagram.   8

   (b) How is 'error control" managed by TCP ? Explain.   7

   (c) Explain the mechanism used by TCP for congestion control and flow control.   7

(d) What is DNS Server ? Differentiate between primary and secondary DNS server.   4

(e) "TCP is a connection-oriented, reliable protocol." Justify the statement.   · 4

2. (a) Describe "Binding" in network programming. Explain any *two* uses of bind( ) system cell.   4

   (b) Write the syntax for the following system cells along with the description of the parameters and purpose of their use :   6

       (i)   socket( )

       (ii) write( )

       (iii) recv( )

3. (a) Explain the conditions which forces the re-transmission of the TCP segment.   5

   (b) Compare and contrast ARP *vs.* RARP.   5

4. (a) Mention the use of MIME. Describe any *four* reader components of MIME. 5

   (b) Briefly write the role of POP protocol. 5

5. (a) Describe the Quality of Service (QoS) in Internet Protocol. 5

   (b) What is Multicasting ? Differentiate between unicasting and multicasting. 5

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