BACHELOR IN COMPUTER APPLICATIONS

Term-End Examination

June, 2008

BCS-061 : TCP/IP PROGRAMMING

Time : 2 hours   Maximum Marks : 60

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

1. (a) Explain the TCP header format in detail. 10

   (b) Differentiate between ARP and RARP. 5

   (c) What is a DNS server ? Differentiate between primary and secondary DNS server. 2+3

   (d) Differentiate between POP and IMAP protocols. 5

   (e) Differentiate between active and passive socket. 5

2. (a) Explain the IPv4 header format in detail. 7

   (b) Differentiate between interactive and concurrent programs. 3

3. (a) Discuss the role of Bind System Call in detail. 5

   (b) With the help of diagram explain UDP client/server architecture. 5

4. (a) Explain DDNS in detail. 5

   (b) Explain MIME in detail. 5

5. Explain the syntax of the following system calls alongwith the meaning of parameters used by them : **10**

   (i)   read( )

   (ii)   write( )

   (iii) sendto( )

   (iv) recv( )

   (v)   accept( )