BACHELOR IN COMPUTER APPLICATIONS

Term-End Examination

June, 2008

CS-612 : PC SOFTWARE SKILLS

Time : 2 hours   Maximum Marks : 60

Note :

(i) Question number 1 is **compulsory**.

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

1. (a) Define "decanting problems". Discuss a methodology to solve a decanting problem. Suppose you have three jugs with capacities 8, 5, 3 litres but none are calibrated. Jug A is filled with 8 litres of milk. Suggest a methodology to divide this 8 litres of milk into two equal parts.   10

   (b) Find the smallest prime P such that
   $Q = 2 \times 3 \times 5 \ldots \times P + 1$ is a composite number ? What are the prime factors of Q ? What are the next two such composite Q's ?   5

   (c) What is "Format Painter" of MS Excel ? How is it applied ?   5

   (d) Explain the functioning of following commands w.r.t. Netscape Navigator :   10

(i) reload frame

(ii) load images

(iii) refresh

(iv) open file in editor

(v) mail document

2. (a) Determine all positive integers n for which $2^n + 1$ is divisible by 3. 5

(b) Explain five categories of functions provided by Excel. Give one example of each category. 5

3. (a) What do you mean by the term IP address, in a computer network ? Briefly describe the utility of IP addressing ? 5

(b) Explain the utility of following Internet tools : 5

(i) Finger

(ii) Internet Relay Chat

(iii) Multiuser simulation environment

(iv) Multicast Backbone

(v) VAT

4. (a) Briefly describe the following terms related to Internet : 4

(i) HTTP

(ii) Telnet

(iii) FTP

(iv) DNS

(b) Explain the working of following Excel functions, giving example of each :   6

   (i)   EXACT( )

  (ii)   IF( )

 (iii) MOD( )

5. (a) Write the steps to hide/unhide, split and freeze window panes.   5

    (b) You are given three integers X_1, X_2, X_3. Prove that the average of two of these must be an integer.   5