

## 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.
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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  $Q = 2 \times 3 \times 5 \dots \times P + 1$  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