

BACHELOR IN COMPUTER APPLICATIONS

Term-End Examination

December, 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) A boatsman must ferry across a river with a wolf, a sheep and a bundle of fodder. His boat is too small to carry more than himself and one of the passengers at a time. He cannot leave the wolf alone with sheep, or the sheep alone with the fodder. Show how he can cross without any detriment to either sheep or fodder. 10
- (b) What is Internet ? How does it work ? 5
- (c) What is a Search Engine ? What are the different types of search engines ? 5

- (d) Define Macros of Excel. Explain the different options available to run a Macro. 5
- (e) Define a function in Excel. Explain any three of the Excel functions with the help of examples. 5
2. (a) What is a chart in Excel ? How many types of charts are available in Excel ? Give examples of any two charts. 6
- (b) What is a protocol ? Explain any two commonly used Internet protocols. 4
3. (a) What is a Decision Tree ? Solve the following problem using Decision Tree :
 "You have been given 12 (twelve) coins, one of which is different from the rest in weight, how will you pick it in three weighings ? Also draw the decision tree for the given problem. 6
- (b) What is a URL ? Explain the parts of URL. 4
4. (a) What is a Pivot Table ? What is the use of pivot table ? How do you create it ? 5
- (b) Prove that
- $$S_n = \left(\frac{1}{2} n(n + 1) \right)^2$$
- for sum of first n cubes by method of induction. 5

5. Write short notes on any **five** of the following : 10

- (a) FTP
- (b) e-mail
- (c) CEILING()
- (d) Template
- (e) NCSA Mosaic
- (f) Netscape Navigator
- (g) FLOOR()

