

**BACHELOR IN COMPUTER
APPLICATIONS****Term-End Examination****June, 2007****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) Given 13 cricket balls, one of them heavier than the rest, how can you determine it, in not more than 3 weighings, using decision tree ? 7
- (b) Explain the concept of filtering a database in MS-Excel using Autofilters and using Advanced filters. 7

- (c) What is the difference between 'Internet' and 'Network' ? What is the role of TCP/IP in Internet ? Also, list the hardware components used in the Internet. 6
- (d) What is Chart Wizard in MS-Excel ? Write the step-by-step method to create charts using Chart Wizard. What are the components of Chart Wizard ? 7
- (e) What is a template ? Explain with an example. 3
2. (a) Prove that for any prime $p \geq 5$, $p^2 + 2$ is composite. 5
- (b) What is a Function Wizard in Excel ? What are its uses ? 2
- (c) What is the use of GOAL SEEK ? Explain with an example. 3
3. (a) Prove that for every integer $n > 2$,

$$(n!)^2 > n^n.$$
 7
- (b) What is meant by URL ? What are its components ? 3
4. (a) Compare the different types of Internet connectivity mechanisms. 6
- (b) Explain how the access of workbook in Excel can be restricted from other users. 4

5. (a) Write short notes on any **two** of the following : 4

(i) HTTP

(ii) Telnet

(iii) FTP

(iv) Domain Name System

(b) Explain the following functions giving example for each : 6

(i) EXACT()

(ii) IF()

(iii) MOD()

