

**BACHELOR OF COMPUTER APPLICATIONS
(BCA) (Pre-Revised)**

00963 Term-End Examination

June, 2015

CS-612 : PC SOFTWARE APPLICATION SKILLS

Time : 2 hours

Maximum Marks : 60

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

1. (a) For any prime $P \geq 5$, prove that $P^2 + 2$ is composite. 10
- (b) Explain the best way of solving Decanting problems and provide a solution for the following problem :
You are provided 3 vessels. The capacities are 12, 9 and 5 litres. The 12-litre vessel is full of water. How can you divide the water in the 12-litre vessel into two equal portions ? 10
- (c) What is a Chart in MS-Excel ? How many types of charts are available in MS-Excel ? Give examples of any three charts. 10

2. (a) What is the remainder left after dividing $1! + 2! + 3! + 4! + \dots + 100!$ by 7? 5
- (b) Write the basic functionality of the following in MS-Excel components : 5
- (i) Format Painter
- (ii) Chart Wizard
3. (a) What is a domain-name ? Give examples of any four domains. 5
- (b) Consider the following :
- $$n^2 + 1 = 2m$$
- where 'm' and 'n' are integers. Prove that 'm' is the sum of squares of two integers. 5
4. (a) What is an e-mail ? Distinguish between e-mail and postal mail service. 6
- (b) Explain the process of applying advanced filters in a Worksheet. 4
5. (a) Write the major difference between a Worksheet and a Workbook. Explain any three ways of restricting access to a Workbook. 5
- (b) Explain any one way of sharing information with people having common interest on the Internet. 5