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

Term-End Examination

CS-611 : COMPUTER FUNDAMENTALS AND PC SOFTWARE

Time : 2 Hours]   *[Maximum Marks : 60*

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

1.   a.   Explain Seek time and Latency time in the context of Winchester disk.   4

     b.   What is the role of operating system in a computer? How is an operating system software different than that of database management system software? Explain.   6

     c.   What is the role of multiplexing in a communication system? Explain with the help of a diagram/example.   4

     d.   Explain the following WAN devices giving their uses in Wide Area Networks (WAN) (i) Bridges (ii) Routers (iii) Gateways.   6

     e.   What are the advantages of using Graphical User Interfaces (GUIs). Explain how are bit mapped display and dialog boxes useful for GUIs?   5

f. How does Presentation software help in making effective presentation? Explain with the help of an example.

2. a. Explain the advantages of using tables in a word processor. List various operations that can be performed on tables in a word processor. 5

b. What are the advantages of using Mail merge? Explain the process of performing mail merge using a word processor. 5

3. Differentiate between the following: 10
   a. Physical security and Network security.
   b. Cryptography and cryptanalysis.
   c. Menus and icons in the context of GUIs.
   d. Inkjet printers and Laser printers

4. a. What is the need of high speed memories in a computer system? Explain any one high speed memory. 4

   b. Explain the concept of variables, constants, data types and expression with the help of an example each. 6

5. Explain any four of the following with the help of an example (if needed). 10
   a. Looping statement
   b. Serial processing
   c. Bus topology
   d. Prevention of computer virus
   e. Disk defragmenter

—x—