

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

**Term-End Examination, 2019**

**CS-611: COMPUTER FUNDAMENTALS AND PC SOFTWARE**

**Time : 2 Hours**

**Maximum Marks : 60**

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**Note : Question No. 1 is compulsory. Attempt any three questions from the rest.**

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1. (a) A memory read cycle takes 200ns and a cache read cycle takes 20ns. Assume that in case an item is not in cache, it is first brought into cache and then read, then : (i) Find the time taken for 5 consecutive memory read operations to same memory location. (ii) How much time will be taken for these 5 memory read operations if cache is not present. [5]
- (b) Explain the concept of a single dimensional array with the help of an example. [5]

- (c) List any four characteristics of LAN. What is LAN topology ? Explain Ring topology of LAN with the help of a diagram. [6]
- (d) Explain any four measures to control computer virus. [4]
- (e) What is GUI ? Explain the use of pointing devices, menu, windows, icons in the context of GUI. [5]
- (f) List any four important features of a word processing software. Explain any two of these features. [5]
2. (a) Explain the importance of the following in the context of Windows 95 or higher : [5]
- (i) Disk defragmentor
  - (ii) Data backup utilities
- (b) Explain the process of mailmerge with the help of an example. [5]
3. Compare and contrast the following : [10]
- (a) CRT and LCD displays

- (b) Impact and Non-impact printers
  - (c) Magnetic tap and CD-ROM
  - (d) Conditional statement and Looping statement
4. (a) What is circuit switching ? Explain with the help of an example. How is it different from packet switching ? [5]
- (b) Explain simplex, half duplex and full duplex data communication with the help of diagrams. [5]
5. Explain **any four** of the following with the help of an example, if needed : [10]
- (a) Main memory
  - (b) Compiler
  - (c) Multiprogramming
  - (d) Router
  - (e) Importance of saving a file in a word processor