BACHELOR OF COMPUTER APPLICATIONS (B. C. A.) (Pre-revised) Term-End Examination December, 2020

CS-611 : COMPUTER FUNDAMENTALS AND PC SOFTWARE

Time : 2 Hours   *Maximum Marks : 60*

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

1. (a) Define the role of an operating system. Also explain the concept of multiprogramming with the help of an example/diagram. 5

   (b) What are the characteristics and advantages of LAN ? 5

   (c) Explain the purpose of the following disk drive related utilities of windows : 6

      (i) Disk defragmentor

      (ii) Scan disk

      (iii) Format disk

(d) What are the advantages of using mail-merge in a MS-Word ? What are the roles of data source and main document in mail-merge ?   6

(e) Why do you use arrays ? Explain with the help of an example of single dimensional array.   4

(f) List *four* measures of protecting your computers against computer virus.   4

2. (a) Explain the use of RAM and secondary memory in a computer system.   3

(b) List and explain the use of any *two* application softwares.   4

(c) Compare the features of dot matrix printer with laser printer.   3

3. (a) What is a MODEM ? Why is it needed ? Explain.   3

(b) Differentiate between the following communication channels :   4

    (i) Coaxial cable and twisted pair cable

    (ii) Fiber optic cable and twisted pair cable

(c) What is Cryptography ? Why is it used ? 3

4. (a) Explain any *five* components of a windows in the context of windows operating system. 5

   (b) Why are macros needed in MS-Word ? 2

   (c) List any *three* features of PowerPoint, which help in making effective presentation ? 3

5. Explain the following with the help of an example/diagram, if needed : 10

   (a) Von Neumann machine

   (b) Access time on disks

   (c) Simplex and half duplex modes of transmission

   (d) Physical security

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