JB2-121

January-2016

B.C.A., Sem.-I

CC-101 : Computer Fundamentals

Time : 3 Hours] **[Max. Marks : 70**

Instruction : Draw figures wherever required.

1. (a) Answer the following : **8**
   (1) What is computer ? Give its advantages.
   (2) Explain different types of memory.

   OR

   Answer the following :
   (1) What is port? Explain special purpose ports.
   (2) List various categories of computer. Explain any four categories of computer.

   (b) Define the following : **6**
   (1) System software
   (2) Motherboard
   (3) Parallel processing

   OR

   Define the following :
   (1) Machine cycle
   (2) Application software
   (3) Parallel port

2. (a) Answer the following : **8**
   (1) Give difference between flat panel display and CRT monitors.
   (2) Explain laser printer, thermal printer.

   OR

Answer the following :

(1) Give difference between impact and nonimpact printer. Explain any one impact printer.

(2) Explain various gaming controllers.

(b) Define the following : **6**

(1) Resolution

(2) RFID Reader

(3) Fax machine

OR

Define the following :

(1) Multifunction peripherals

(2) Video conferencing

(3) Dot pitch

3. (a) Answer the following : **8**

(1) Explain RAID, Miniature hard disk and external hard disk.

(2) Define file. Explain transaction file and master file with example.

OR

Answer the following

(1) Give difference between magnetic disks and optical disc. List characteristics of a hard disk.

(2) Define file. Explain backup file and output file with example.

(b) Define the following : **6**

(1) Floppy disk

(2) USB flash drive

(3) Express card Module

OR

Define the following :

(1) Smart card

(2) DVD-ROM

(3) Hard disk

4. Solve the following : **14**

    (1) Convert following decimal numbers to binary : **8**

        (a) 175.03125   (b) 89.56

OR

        Convert following hexadecimal numbers to decimal :

        (a) 7C.8A9   (b) 659.DF

    (2) Convert following octal number to decimal : **4**

        3024.45

OR

        Convert following binary number to decimal : **4**

        11001010111.01011

    (3) Convert following hexadecimal number to octal : **2**

        9A6.C8

OR

        Convert following octal number to binary :

        75402.6321

5. Attempt any **fourteen** : **14**

    (1) Hard disk improves their access time by using disk _____.

    (2) _____ is a technology that uses radio waves to transmit data between two devices.

    (3) Full form of MICR is _____.

    (4) A Photo printer generates images by pushing electrically heated pins against heat sensitive paper.(T/F)

    (5) A _____ is the smallest unit of disk space that stores data and information.

    (6) _____ type of nonimpact forms characters by spraying tiny drops of liquid ink.

    (7) 1GB = _____ KB.

(8) Full form of EBCDIC is _____.

(9) The octal representation of decimal number 20 is 25. (T/F)

(10) _____ is the process of setting up software to work with computer.

(11) _____ is a 7 bit coding scheme.

(12) List any two types of mobile computers.

(13) _____ category of users uses workstation or other powerful computer.

(14) List four basic operations of machine cycle.

(15) _____ and _____ are impact printers.

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