DC-105

December-2013

F.Y.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) Write short note on processor including machine cycle, registers and system clock.
   - (2) Define Computer. Give its advantages and disadvantages.

   OR

   Answer the following :
   - (1) Define Memory. Explain various types of Memory.
   - (2) Define Port. Explain any four types of Ports.

   (b) Define the following :   **6**
   - (1) Servers
   - (2) Notebook Computer
   - (3) Motherboard

   OR

   Define the following :
   - (1) Embedded Computer
   - (2) Bays
   - (3) Super Computer

2. (a) Answer the following :   **8**
   - (1) Explain Pointing Devices.
   - (2) Explain CRT monitors and LCD monitors.

   OR

   Answer the following :
   - (1) Explain RFID, MICR and Magnetic Stripe card readers.
   - (2) Explain Inkjet, Laser and Thermal Printers.

(b) Define the following : **6**
   (1) Audio Input

   (2) Multifunction peripherals

   (3) Impact Printer

   OR

   Define the following :

   (1) Video conferencing

   (2) Fax Machine

   (3) Data Projector

3. (a) Answer the following : **8**
   (1) Write short note on optical disc and its types.

   (2) Define File. Explain Transaction file and Backup file.

   OR

   Answer the following :

   (1) Write short note on hard disk and its characteristics.

   (2) Define File. Explain Master file and Output file.

   (b) Define the following : **6**
   (1) Floppy Disk

   (2) Hard disk controller

   (3) Smart card

   OR

   Define the following :

   (1) USB flash drive

   (2) Microfilm

   (3) RAID

4. (a) Convert the following to decimal : **8**
   (1) $(1100010.01011)_2$

   (2) $(5F6.75A)_{16}$

   OR

   Convert the following to hexadecimal :

   (1) $(650.59)_{10}$

   (2) $(4042.365)_8$

(b) Convert the following to binary : **6**

    (1) $(459.85)_{10}$

    (2) $(5CD.08)_{16}$

          OR

Convert the following to octal :

    (1) $(892.55)_{10}$

    (2) $(11001010.001)_2$

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

    (1) A _____ pointing device has a rubber ball on its top side.

    (2) A _____ code is an identification code that consists of either vertical lines or spaces of different width.

    (3) _____ and _____ are two types of software.

    (4) _____ storage requires sequential access.

    (5) Fingerprint scanner is a _____ type of input device.

    (6) Computer codes are also known as _____.

    (7) _____ and _____ are two technology used by optical readers.

    (8) 1 GB = _____ bytes.

    (9) Give full form of ASCII.

    (10) Unicode uses _____ bits.

    (11) USB device can connect 127 different peripherals (T/F).

    (12) Printer resolution is measured by the number of _____ a printer can print.

    (13) A _____ is a unique number that identifies the location of a byte in memory.

    (14) Full form of CMOS.

    (15) Processor consists of _____ and _____.

    (16) List any two scanners.

    (17) List any two gaming controllers.

_____