MA-112

March-2022

BCA., Sem.-I

CC-101 : Introduction to Computer and Emerging Technology

Time : 2 hours]

[Max. Marks : 50

Instructions :
- (i) All Question of Section – I carry equal marks.
- (ii) Attempt any **two** Questions in Section – I.
- (iii) Question – 5 in Section – II is **COMPULSORY**.

Section – I

1. (A) Answer the following :   **10**
   - (1) What is Computer ? List different types of it.
   - (2) What is Data ? How it differs from Information ? Explain it with an example.

   (B) Answer the following :   **10**
   - (1) What is software ? List and explain different types of it.
   - (2) What is embedded computer ? Explain it in detail.

2. (A) Answer the following :   **10**
   - (1) What is CPU ? List and discuss different components of it.
   - (2) What are Primary Memories ? Discuss different types of it.

   (B) Do as directed :   **10**
   - (1) What is Disk Access time ? Explain in detail.
   - (2) List all storage devices and explain any one in brief.

3. (A) Do as directed :   **10**
   - (1) List all different types of scanning devices and explain OMR in details.
   - (2) List all different types of pointing devices and explain any one from it.

   (B) Do as directed :   **10**
   - (1) List different types of Printers you know. Explain Laser Printer in brief.
   - (2) What is OCR ? Explain it in detail.

4. Convert the given numbers in other number system :   **20**
   - (1) $(243.125)_{10}$ = (_____)$_2$ = (_____)$_8$ = (_____)$_{16}$ = (_____) BCD
   - (2) $(B71.8A)_{16}$ = (_____)$_2$ = (_____)$_8$ = (_____)$_{10}$ = (_____) BCD

Section – II

5. Fill in the blanks : (Any **Five**)

(1) 1 KB = _____ bits.
    (A) 1024   (B) 2048
    (C) 8   (D) None of the above

(2) All instructions are executed in _____ part of the CPU.
    (A) CU   (B) ALU
    (C) MU   (D) None of the above

(3) _____ memories are also called as firmware.
    (A) ROM   (B) HDD
    (C) RAM   (D) Optical

(4) _____ is not a kind of optical memory.
    (A) SSD   (B) DVD
    (C) CD-ROM   (D) Blu-Ray disc

(5) _____ is a narrow recording band that forms a full circle on the surface of the disk.
    (A) Sector   (B) Track
    (C) Spindle   (D) Platter

(6) _____ printer includes tonner.
    (A) Dot-Matrix   (B) InkJet
    (C) Both (A) and (B)   (D) Laser

(7) To process the checks in Banking industry, _____ technology is used.
    (A) OCR   (B) MICR
    (C) OMR   (D) UPI

(8) FTP stands for _____.
    (A) Fast Transfer Provider   (B) File Transfer Protocol
    (C) File Trivial Protocol   (D) File Testing Provider

(9) BCD stands for _____.
    (A) Binary Coded Decimal   (B) Bits Coded Decimal
    (C) Binary Computer Device   (D) Bits Computed Device

(10) Hexa-decimal of the given decimal number 255 is _____.
    (A) 255   (B) AB
    (C) F15   (D) FF

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