

(iii) Convert $(2CD)_{16}$ to octal number system.

(iv) Convert $(126E)_{16}$ to decimal number system.

(v) Convert $(0110011)_2$ to octal number system.
(10)

(b) Differentiate between :

(i) RAM and ROM

(ii) Machine language, assembly language and high level language (5)

6. (a) Write short notes on the following :

(i) Google scholar

(ii) E-library

(iii) Heterogeneous Storage

(iv) SPSS (10)

(b) What do you mean by "BIGDATA". Explain any 4 V'S of Bigdata. (5)

(200)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 780

I

Unique Paper Code : 6202451102

Name of the Paper : Computer Fundamentals

Name of the Course : **B.Voc.**

Semester : I

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. **Section A** is compulsory.
3. Attempt any **three** questions from **Section B**.

Section A

1. (a) Give full forms of:

(i) UNIVAC

(ii) EBCDIC

(iii) PDF (3)

P.T.O.

- (b) Explain characteristics and capabilities of a computer system. (3)
- (c) What is an MICR no.? Describe one of its applications. (2)
- (d) What are the different components of CPU? (3)
- (e) Give the 1's and 2's Complement of $(1101011111)_2$. (2)
- (f) Choose the correct option : [2M] (2)
- (i) Microprocessors as switching devices are for which generation computers
- (a) First Generation
 - (b) Second Generation
 - (c) Third Generation
 - (d) Fourth Generation
- (ii) A hybrid computer
- (a) Resembles digital computer
 - (b) Resembles analogue computer
 - (c) Resembles both a digital and analogue computer.
 - (d) None of the above (2)

Section B

2. (a) Explain different generations of computers. (10)
- (b) Perform the following operations :
- (i) Add $(1010110)_2$ and $(10011001)_2$
 - (ii) Subtract $(10101111)_2$ from $(10010111)_2$. (5)
3. (a) Write different types of printers. Explain any two types of printer in detail. (10)
- (b) Name two pointing devices. Explain them. (5)
4. (a) What do you understand by Data Visualization? Explain 2 data visualization tools in excel with example. (10)
- (b) Briefly explain loader and linker. (5)
5. (a) Convert the following :
- (i) Convert $(5062)_{10}$ to the binary number system
 - (ii) Convert $(159)_{10}$ to the octal number system.