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5. Explain the following terms : (6)
- (i) OCR and OMR
  - (ii) Bootstrapping
  - (iii) Compiler
6. What is data communication? Explain the components needed for successful data communication. (6)
7. What is 1's and 2's compliment of 101010001111. Also explain features of number system, BCD codes and conversions. Further, Discuss Decimal number system in detail. Also Convert the binary number  $(1000010)_2$  into  $(X)_{10}$  and  $(Y)_8$ . Write the value of X and Y after conversion. (6)
8. What is the difference among COUNT, COUNTA, COUNTIF and COUNTBLANK in Ms-Excel? Is it possible to hide or show the ribbon in Excel? (6)

(500)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 1319

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Unique Paper Code : 6202451102

Name of the Paper : Computer Fundamentals

Name of the Course : **B.VOC SOFTWARE DEVELOPMENT**

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. Please attempt any **Eight** from **Section A**.
3. Please attempt any **Six** from **Section B**.

**SECTION A**

1. What is the unit for measuring the output quality of a printer? Discuss some basic operations of a computer system. (3)

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2. How volatile memory is different from non volatile?  
Give example of each (3)
3. What do you understand by ASCII code? Write full form for ASCII code (3)
4. Write the basic job of a storage unit in computer system. (3)
5. Write short note on with example : (3)
  - (i) Flowchart
  - (ii) Algorithm
  - (iii) Compiler and interpreter
6. Draw and explain the function block diagram of computer. Explain the Generations of computers in detail. (3)
7. Explain the term 'Batch processing'. Give example. How multiprocessing Operating System is different from Multiprogramming Operating System. (3)
8. Differentiate application and system software. Give examples. Also explain 1s and 2s complement and give two examples of each. (3)

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9. Explain the following terms : (3)
  - (i) Harddisks,
  - (ii) Optical disks,
  - (iii) Cloud computing

### SECTION B

1. Write different types of printer. Explain any two types of printer in detail. Explain any five input and five output devices with their uses. (6)
2. Explain the basic components of CPU with block diagram. (6)
3. Explain the following : (6)
  - (i) Registers and types
  - (ii) DOS
  - (iii) MS-word and MS-excel features and limitations of each
4. Differentiate between primary and secondary memory? Also Discuss cache memory, system buses. (6)

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