Roll No.........................

BCA-101(O)
B.C.A. (Semester First) Examination – 2011
Paper: First
COMPUTER FUNDAMENTALS

Time: Three Hours]   *[Maximum Marks:* **75**

Note: **Attempt questions from all the sections.**

Section – A

Note: **Sections A is compulsory. Attempt any seven question from Section B and one question from Section C.**

1. Fill in the Blanks   **(6)**

   (a)   Idea of coding data and program on punched card was given by_____.

   (b)   An optical Input device that interprets pencil marks on paper media is_____.

   (c)   Term Hardware is used for_____ parts of the Computer.

   (d)   Device used for storage of IVth generation of computer_____.

   (e)   A Half byte in known as _____.

   (f)   Most common binary code used in computer is_____.

2. Give the Full Form of   **(2)**

   (a)   SNOBOL   (b)   TFT   (c)   UNIVAC

3. Subtract $(1010.)_2$ from $(1101)_2$ **(2)**

4. Convert the binary number 11110.11011 to Hexadecimal number. **(2)**

5. Solve of Binary operation **(4)**
   (a) $(.165)_8 = ( )_{10}$
   (b) $(I A 3)_{16} \times (89)_{16}$
   (c) $(.101)_2 = ( )_{10}$
   (d) $111011/111 =$

Section-B

1. Define Parity Bit and check sum? **(6)**

2. Write short note on- **(6)**
   (a) Super-computer
   (b) Work-station

3. Draw a Flow-chart to calculate the roots of the Quadratic equation. $ax^2 + bx + c = 0$ **(6)**

4. Define value of Information and Quality of Information? **(6)**

5. Define Major components of 1st & IInd generation computer? **(6)**

6. Define Instruction. How many types of Instruction format are? **(6)**

7. What is Secondary storage? How does it differ from a primary storage? **(6)**

8. Define the following terms in reference to magnetic Disks. **(6)**
   (a) Access time
   (b) Seek time
   (c) Latency time
   (d) Transfer Time

9. What are the characteristics of computer? **(6)**

10. Explain Input devices? **(6)**

Section – C

1. (a) List out the types of Computer monitors and Explain in Detail. **(10)**

   (b) Draw and Define the block diagram of the processor. **(7)**

2. (a) Define ERNET? How they are helpful in India? **(10)**

   (b) What do you understand by Normalized floating Point representation? Explain with Example **(7)**