**COLLEGE OF COMPUTING AND INFORMATICS**

**Assignment 1**

**Course Title: Computer Organization Course Code : IT 110**

**Marks: 4**

***Deadline: 15/2/2016***

**1. What are the main components of a computer system? [1 Mark]**

**Answer: Hardware, software, data, and communications**

**2. Provide some advantages of client-server architecture. [1 Mark]**

**Answer: easier administration, consistency of resources, more efficient and cost- effective hardware procurement, easier availability and location by users**

**3. Using 4 bits perform the addition of 210and -510by 2’s complement method. [1 Mark]**

**SOLUTION: 0010**

**1011**

**1101**

**4. Show how 12.25 is represented in SEEMMMMM format. [1 Mark]**

**SOLUTION :**

**12.25 = .1225 x 10^2**

**S=0**

**EE=52**

**MMMMM = 12250, where the added zero is added to make five digits**

**Answer: 05212250**