

# Faculty of Engineering and Technology

# Mock Examination Question Paper – B. Tech.

**Department: Computer Science and Engineering**

**Programme: B. Tech**

**Semester / Batch: 4 / 2017**

**Examination: 11th MAR 2019**

**Course Code: CSC214A**

**Course Title: Microprocessor and Assembly Programming Laboratory**

**Mock Examination – Laboratory**

**INSTRUCTIONS TO STUDENTS:**

1. Answer all the questions
2. Use only SI units
3. Use of non programmable scientific calculator is permitted
4. Use of data handbook permitted wherever applicable
5. Missing data may be appropriately assumed

**Time: 2 Hours Maximum Marks: 20**

|  |  |  |
| --- | --- | --- |
| **Item** | **Maximum Marks** | **Marks Obtained** |
| **Pre checking knowledge** | **5** |  |
| **Results**  (Implementation + Results screenshots + Analysis and Limitations of your work + Recommendations ) | **15**  (7+5+2+1) |  |
| **Viva Voce** | **-** |  |
| **Total Marks** | **20** |  |

1. Write algorithm to solve the given problem. **(5 Marks)**

1. Conduction of experiment and reporting the result. **(15 Marks)**

**Q1.Develop an assembly language program to convert a decimal number to hexa-decimal.**

**Q2.Develop an assembly language program to count the number of 0’s in given binary number.**

**Q3. Develop an assembly language program to find the number of occurrences of given character in the input string. Input: Hi Hello Given character: H Output: 2**

**Q4.Develop an assembly language program to design a calculator that performs ADD, SUB, MULTIPLICATION and DIVISION.**

Document the following:

* **Introduction to problem statement**
* **Implementation**
* **Screenshots of Results**
* **Analysis and Limitations of your work**
* **Recommendations**
* **Conclusion**