**Muffakham Jah College of Engineering and Technology**

**Electronics and Communication Engineering Department**

**BE 2rd Year 2nd Semester; Section-B (2019-20)**

**Computer Organization and Architecture (PC234EC)**

**CLASS TEST-I**

**Course outcomes**

**CO1: Perform mathematical operations on fixed- and floating-point digital data**

**CO2: Illustrate the operation of a digital computer**

**NOTE:**

**A. Answer all Questions from Part-A [2M for Each Question]**

**B. Answer any 2 Questions from Part-B [7M for Each Question]**

**C. Assume any missing Data**

**Part-A**

**1. What is the difference between Computer Organization and Computer   
 Architecture. [CO1]**

**2. Convert the given to Booth’s recoding (1110011)2. [CO1]**

**3. What is an instruction cycle? [CO2]**

**Part-B**

**4. Explain booth’s multiplication with an example of -12 x -5. [CO1]**

**5. Explain restoring division algorithm with an example of 15 divided by 3. [CO1]**

**6. What are the different types of Instruction formats? Explain them in detail. [CO2]**

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| --- | --- | --- | --- | --- | --- | --- |
| **Class Test Q.No.** | **1** | **2** | **3** | **4** | **5** | **6** |
| **Marks (Xi)** | **2** | **2** | **2** | **7** | **7** | **7** |
| **Bloom’s Score (Si)** | **3** | **4** | **2** | **4** | **3** | **4** |
| **Xi\*Si** | **6** | **8** | **4** | **28** | **21** | **28** |

**BI=4.75**

**Course Coordinator:**

**Mohd. Zakir Hussain, Asst. Prof., ECED**