**COMPUTER ORGANIZATION**

**ASSIGNMENT(UNIT 1 ,2& 3)**

**D:21/03/2020**

**ROLL NO:160718733062-160718733072**

1. **Basic computer organization**
2. **Instruction formats and comparative study between them**
3. **Addressing modes with examples**
4. **Program control and conditional branching**
5. **Interrupts and various types**

**ROLL NO:160718733073-160718733084**

1. **I/O bus and interface modules**
2. **Explain Isolated Vs Memory-Mapped I/O**
3. **Explain in detail Asynchronous data Transfer method.**
4. **Explain in detail Asynchronous Communication interface(block diagram)**
5. **Describe various data transfer modes**

**ROLL NO:160718733085-160718733096**

1. **Explain in detail DMA controller with block diagram**
2. **With a neat sketch explain DMA transfer mode**
3. **Draw and Explain IOP-CPU-IOP communication**
4. **Outline 8089 IOP with a neat sketch**

**ROLL NO:160718733097-160718733109**

1. **Write short notes on memory organization ?**
2. **Explain memory hierarchy pyramid ?**
3. **Draw and explain RAM & ROM organizations**
4. **What is memory address map and how it will be useful**
5. **How a connection is established between memory to CPU explain**

**ROLL NO:160718733111-160718733303**

1. **What is associate memory ?write short notes on it**
2. **What is use of cache memory explain its benefits**
3. **Explain the benefits of Data and instruction cache**
4. **Explain virtual memory page replacement.**
5. **Write short notes on**

**a)cache miss and Hit ratio**

**b)types of missies**

**c)access time**

**ROLL NO:160718733304- 160717733112**

**26.Explain in detail cache mapping techniques with an examples**

**27. briefly explain cache coherence protocols**

**28. Write short notes on main memory**

**29. What is virtual memory? Explain address and memory space**

**30.How address mapping using pages is done in virtual memory**

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**Instructions to the students :**

**1.write all the answers in A4 size papers**

**2.take the pictures and convert it into pdf**

**3.upload the PDF file through moodle web/mobile app**

**4.last date for submitting the assignment is 28/03/2020**

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