**[](http://www.google.co.in/imgres?imgurl=http://igbt-module.wikispaces.com/file/view/Sell_Energy_Metering_IC_ATT7022B_Integrated_Circuits_Manufacturer_exporting_direct_from_China.jpg/101326391/Sell_Energy_Metering_IC_ATT7022B_Integrated_Circuits_Manufacturer_exporting_direct_from_China.jpg&imgrefurl=http://igbt-module.wikispaces.com/Sell+Energy+Metering+IC+ATT7022B+Integrated+Circuits+Manufacturer+exporting+direct+from+China&usg=__y8Qx9ac9N7rEUYhSejn6Wbc4xMM=&h=420&w=505&sz=72&hl=en&start=62&zoom=1&tbnid=BPKocfrp8VqmMM:&tbnh=108&tbnw=130&ei=fjcyT7z5BKidiAf-9_DKBA&prev=/images?q=ic+circuits&start=60&hl=en&sa=N&gbv=2&tbm=isch&itbs=1)M.J.C.E.T.**

**ELECTRONICS & COMMUNICATION ENGG. DEPARTMENT**

**1st – INTERNAL TEST – II. SEMESTER – 2019 – 2020**

**B.E. II/IV – E.C.E. – B**

**COMPUTER ORGANIZATION AND ARCHITECTURE**

**Time: 1 Hr. Max. Marks: 20**

**NOTE: 1. Answer all questions from Part – A.**

1. **Answer any TWO full questions from Part – B.**

Part- A

1. What is normalization? Give an example. [CO1]

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |

using the above pattern represent the maximum possible positive floating point number. consider bits 6-4 for biased exponent 3-0 for mantissa. [CO1]

3. What is instruction cycle? [CO2]

Part - B

4. Explain Booth’s multiplication with an example of -10 x -4. [CO1]

5. Explain Non-restoring division algorithm with an example of 120 divided by 4.  
 [CO1]

6. Write about stored program concept with neat diagrams. Explain the different   
 types of Instruction formats with examples. [CO2]

Blooms Index

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Question Marks() | | | | | | | | |
| Class test Q. No. | 1 | 2 | 3 | 4(a) | 4(b) | 5(a) | 5(b) | 6(a) | 6(b) |
| 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 | - |
|  |  |  |  |  |  |  |  |  |  |

Blooms Score and Bloom’s Index (BI) for the above Questions Marks

; ; = 3.5