G.R. No.	

Paper Code – U239-144 (T₁)

OCTOBER 2019/ INSEM (T1)
S. Y. B.TECH. (IT) (SEMESTER – III)
COURSE NAME: COMPUTER ORGANIZATION
COURSE CODE: ITUA21184
(PATTERN 2018)

Time: [1 Hour]   [Max. Marks: 20]

(*) Instructions to candidates:
1) All questions are compulsory.
2) Figures to the right indicate full marks.
3) Use of scientific calculator is allowed.
4) Assume suitable data where ever required.

Q 1)   Attempt any **one**

    a) Draw Von Neumann Architecture(IAS) and explain it in detail   [8]
    b) Recognize the priority of main structural components computer and justify it with the help of their functionalities.   [8]

Q 2)   Attempt any **one**

    a) Multiply -7and -3 using booth's algorithm. Register size=4 bits.   [8]
    b) Perform the division using restoring division algorithm. Dividend =1011; Divisor=0011   [8]

Q 3)   Attempt any **one**

    a) Differentiate between superscalar and super pipelined   [4]

    b) Draw and explain the micro programmed control unit with suitable example.   [4]

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