

Muffakham Jah College of Engineering and Technology

Banjara Hills, Road No.3

Department of Electronics and Communication Engineering

Subject: Computer Organization and Architecture Code: PC404EC

CLASS INTERNAL TEST-1 (A & B)

(2022-23)

PART-A: Answer all the questions

(3x2M=6M)

1. Represent the 15.5 in 9-bit size fixed-point format in which 5-bits are for integer, 1-bit is for sign and the remaining bits are for fraction. [2M]
2. Represent the $(+16)_{10}$ in Booth's recoded bits format. [2M]
3. Define the instruction code format. [2M]

PART-B: Answer any of the two from the following questions

(2x7M=14M)

4. Explain the common-bus system with neat diagram. [7M]
5. Perform the 144/12 division using Non-restoring division algorithm. [7M]
6. Perform the -8x-9 multiplication using Booth's multiplication algorithm. [7M]

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