

Department of Computer Science and Engineering

CSE1503 COMPUTER ORGANIZATION

First Semester 2022-23 Mid Semester Test

Date: 8.10.22

Time: 12:00 - 1:00

Max Marks: 20

Q.1

- (a) Discuss addition of sign-2's complement numbers and implement with digital function. How overflow can be taken care during the same? [5]
- (b) Explain design procedure of one typical stage of the accumulator. [5]

Q.2

ATTEMPT ANY TWO.

[10]

- (a) What is the importance of the Bus Organization in Processor Organization? Discuss with suitable example.
- (b) How PLA Control method is functioning? Compare it with other methods used for control mechanism of the processor.
- (c) Write a microprogram that compares two unsigned numbers stored in R1 and R2. The register containing the smaller number is cleared. If two numbers are equal both registers are cleared.