## **BRAC UNIVERSITY Department of Computer Science and Engineering**

Quiz 01	<b>Duration: 20 min</b>
Semester: Summer 2024	Full Marks: 10

Name:	ID:	Section:

## CSE 330: Numerical Methods SET- B

- 1. [CO3] Let  $\beta$  = 2, m = 5,  $\theta$ min = -6 and  $\theta$ max = 0. Answer the questions from (a) to (b) using the given data:
- (a) (3 marks) Compute the maximum and the minimum non-negative number for the Normalized form
- (b) (3 marks) How many non-negative numbers can be represented using the Normalized form using this system? Explain your answer.
- (c) (4 marks) Let  $\beta$  = 2 and m = 3. Calculate the value of fl(xy) for this system using Convention 2, where x = 9/16 and y = 3/2