BRAC UNIVERSITY Department of Computer Science and Engineering

Quiz 01 Duration: 20 min Semester: Summer 2024 Full Marks: 10

Name:	ID:	Section:
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CSE 330: Numerical Methods SET- A

- 1. [CO3] Let β = 2, m = 5, e_{min} = -4 and e_{max} = 3. 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 Denormalized form
- (b) (3 marks) In total how many numbers can be represented using the Denormalized form using this system? Explain your answer.
- (c) (4 marks) Let β = 2 and m = 3. Calculate the value of fl(xy) for this system using Convention 3, where x = 7/4 and y = 3/16