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Pop Quiz # 7

Pop Quiz # 7

4/6 points (graded)

In the following, write your BRACU ID# and section number first. After you submit the quiz, it will show that the ID# and Section numbers are wrong. Please ignore this messages. You score will based on the MCQs only.

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Your BracU ID #

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Your Theory class section #:

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Below are the MCQs:

=====

Q#1: Suppose the domain of x is given as [0.101,0.111]. If x_6 =0.1101, it will be rounded to

○ 0.1100

◉ 0.111

○ 0.1101

○ 0.110

✔

Q#2: What will be the Machine Epsilon for $\pm(1.d_1 d_2 d_3 \ldots d_m)_\beta \beta^e$?

○ $\beta^{-1} \beta^{-e}$

○ $\frac{1}{2}\beta^{-m} \beta^e$

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○ $\beta^{-m} \beta^{-2e}$

◉ $\frac{1}{2}\beta^{-m}$

✔

Q#3: Suppose $x_1 = \frac{5}{8}$ and $x_2 = \frac{7}{8}$. If the computer reads upto 3 digits after the decimal point, their product will be rounded to

○ 0.101

◉ 0.100

○ 0.1000

○ 0.10001

✔

Q#4: To get the Machine Epsilon value, we always use

○ Minimum value of $|fl(x) - x|$

○ Average value of $|x|$

○ Maximum value of $|x|$

◉ Minimum value of $|x|$

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