

MA105: Quiz 1 (8:15 - 9:05 a.m. on 25/08/2023)

D _ _ / T _ _

Roll Number: _ _ _ _ _

Name: _ _ _ _ _

A=

B=

- Fill in the numbers “A” and “B” above as follows:

If the last digit a of your roll number satisfies $0 \leq a \leq 4$, let $A = a + 5$. If $5 \leq a \leq 9$, let $A = a$.
If the second-last digit b of your roll number satisfies $0 \leq b \leq 4$, let $B = b + 5$. If $5 \leq b \leq 9$, let $B = b$. Thus $5 \leq A, B \leq 9$.

Example: Your Roll number is 23B0092. Then $A = 7$ and $B = 9$.

You must use these values of A and B below. Using the wrong value of A or B even in one question may lead to the loss of all marks in this quiz.

Question 1. Write the answers **only** in the box provided below. You will get marks in Questions 1-3 only if you identify all the true statement and only the true statements.

(1) (1 mark) Which of the following are true?

- (a)
- (b)
- (c)
- (d)

(2) (1 mark) Which of the following are true?

- (a)
- (b)
- (c)
- (d)

(3) (1 mark) Which of the following are true?

- (a)
- (b)
- (c)
- (d)

(4) (2 marks) Find X , where

Question 2. (2 marks) Second Question.

[illegible]

Question 3. (3 marks) Third Question

[illegible]