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INTRA SEMESTER ASSESSMENT TEST - III
B.C.A. SEMESTER I SEPTEMBER 2014
BASIC MATHEMATICS

MARKS: - 15

Duration: - 45 minutes

Q.1] Find AB and BA for $A = \begin{bmatrix} 2 & 3 \\ -1 & -1 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & 1 \\ 4 & 4 \end{bmatrix}$ (3)

Q.2] Find the cof A where $A = \begin{bmatrix} 1 & 0 & 2 \\ 2 & 3 & 3 \\ 5 & 7 & 4 \end{bmatrix}$ (5)

Q.3] If $f(x) = x^2 - 2x + 4$; $0 \leq x \leq 6$. Find $f(1)$, $f(-1)$, $f(3)$, $f(6)$ if they exist. (2)

Q.4] Find the domain of the following function.

$$f(x) = \frac{1}{x^2 - 5x - 14} \quad (2)$$

Q.5] Evaluate the following limit.

$$\lim_{x \rightarrow 3} \frac{x^2 - 9}{x - 3} \quad (3)$$

— Best of luck —