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SEMCOM

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Subject: Business Mathematics-I (Assignment).

Class: BBA-ITM (Sem-I)

Q.1

(A) Let $A = \{1, 2, 5, 6, 9\}$, $B = \{2, 4, 6, 8\}$ & $C = \{2, 4, 5, 8\}$ then state and verify Distributive laws.

(B) If $A = \{1, 3, 5\}$, $B = \{2, 4, 6, 8\}$, and $U = \{x: x \leq 10, x \in N\}$ then verify De Morgan's laws.

(C) If $A = \begin{bmatrix} 1 & 3 & 2 \\ 3 & 1 & 2 \\ 2 & 4 & 1 \end{bmatrix}$, $B = \begin{bmatrix} 1 & -2 & 3 \\ 2 & 3 & -1 \\ -3 & 1 & 2 \end{bmatrix}$ and $C = \begin{bmatrix} 1 & 0 & 2 \\ 0 & 1 & 2 \\ 1 & 2 & 0 \end{bmatrix}$

Then find 1. $A + C$ 2. $A - B$ 3. $A - B + 2C$

Q.2

(A) Find :

1. ${}^9P_3 + {}^5P_5$

2. ${}_nP_4 = 840$, find n.

(B) In how many ways a committee of 4 persons can be formed from 5 boys and 3 girls in which there are at most 2 girls?

(C) How many arrangements can be made with the letter of the word ALLAHABAD?
In how many of them vowels occupy even places?