

**Art and Design Department
Mid-Summer 2020**

Subject: Business Mathematics

Mr. Tuheed ur Rehman

**Max Marks: 30
Date: 24 August, 2020**

Question 1: (4+ 6)

- a) Given the sets $A = \{ A,E,I,O,U\}$ and $B = \{ I,J, K \}$, Draw a Venn diagram of A and B using the universal set $U = \{ A,B,C, \dots, Z \}$.
- b) Define with examples;
- Equal Set
 - Finite and Infinite Set
 - Subset

Question 2: (4+6)

- a) What are the four basic rules to solve an equation?
- b) Find the solution to the equation
- $8(x - 1) + 17(x - 3) = 4(4x - 9) + 4$
 - $15(x - 1) + 4(x + 3) = 2(7 + x)$

Question 3: (10)

Solve the following equation simultaneously using elimination method

$$7x + 2y = 47 \dots\dots\dots (1)$$

$$5x - 4y = 1 \dots\dots\dots (2)$$

Good Luck 😊