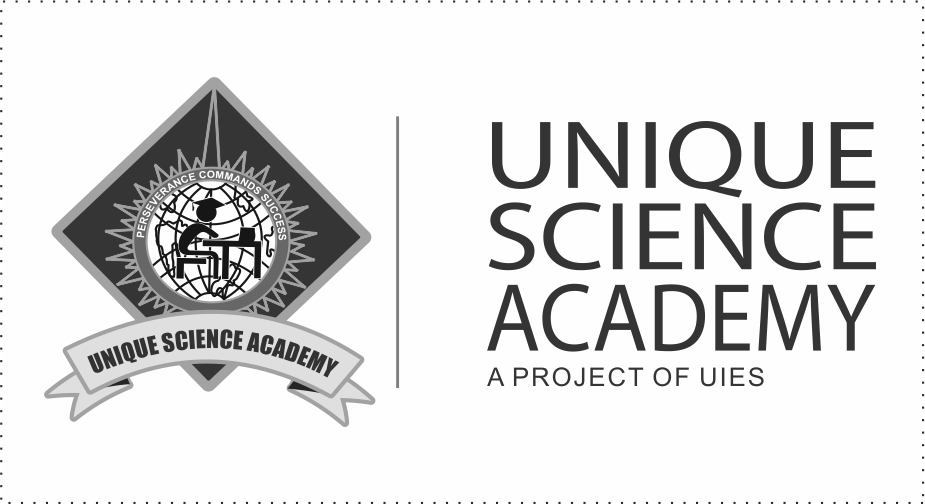
**Unique Science Academy, 60 – D Nawab Town, Lahore**

**Statistics 12 Monthly Test**

(Chapter 11 – Sampling Distributions – Subjective Type)

27 September 2024 Allowed Time: 50 minutes

Total Marks: 30

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**1. Select all that are true. (1 x 2 = 2)**

1. If the sample is then, the formula for variance is
2. What is the proportion of prime numbers in the sample

**Question. A finite population consist of four values 1, 3, 4, and 5.**

1. Take all possible samples of size 2 *without* replacement. (3)
2. Take all possible samples of size 2 *with* replacement. (3)
3. Verify (10)
4. Verify (12)