## Mymensingh Girls' Cadet College $3^{rd}$ Term Fornightly Examination - 2025

Subject: Statistics-I Class: XI

Marks: 20 Time: 40 Minutes

$[\mathbf{N.B.}$ – The figures of the right margin indicate full marks. Read the stems carefully and answer t	he associated
questions. Answer all the questions.]	
1. Write two primary uses of central tendency.	1

- 2. If  $\bar{X} = 3$ , and n = 10, what is  $\sum X_i$ ?
- 3. Find Geometric Mean for these values: 2, 4, 8
  4. Find median: 7, 2, 4, 5, 6, 10 and explain the value
  2

2

1

4

1

2

3

- 5. A data set has the following values: 5, 10, 20, 30. Find AM, GM, HM, Median, and Mode and order the results in ascending order.
- 6. A vehicle moves along the path ABCD, covering each segment at a uniform velocity.

$\underline{A}$	15s	B 15s $C$	15s	D
	60 meters	30 meters	45 meters	

- (a) What is the formula of harmonic mean?
- (b) When should we use the harmonic mean?
- (c) Find the average velocity of the vehicle.
- (d) Compare the average speed estimated using the arithmetic and harmonic mean and verify their suitability in the given situation.

— AAM —

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- 60 meters 30 meters 45 meters
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