Mymensingh Girls' Cadet College
1st Term 1st Phase Fornightly Examination - 2026
Subject: Statistics-I
Class: XI

Marks: 20 Time: 40 Minutes

[**N.B.** – The figures of the right margin indicate full marks. Read the stems carefully and answer the associated questions. Answer all the questions.]

1. **The monthly temperatures in the cities of Dhaka (in Degree Celsius) and New York (in degree Fahrenheit) are given in the following table:**

City	Jan	Feb	Mar	Apr	May	Jun
Dhaka (^oC)	24	28	32	33	33	32
New York (^oF)	29	32	40	50	60	70

   (a) How is the Range defined? 1

   (b) Can the standard deviation exceed the variance? Prove. 2

   (c) Find the standard deviation of the above data and compare the cities. 3

   (d) Examine the efficacy the standard deviation in light of the given context. Is a better measure availabe? Analyze. 4

2. Compute the MD($\bar{x}$), MD(Me), Coefficient of Range, Quartile Deviation, and the Coefficient of Quartile Deviation for the following data: **10, 16, 20, 25, 34, 25, 17** $5 \times 2 = 10$

— AAM —