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Daffodil International University
Department of Software Engineering
Class Test-01
Fall - 2026
Course Code: STA 101
Course Name: Statistics I
Teacher's Initial: DSA

Time: 60 minutes **Total Marks:15**

1. Define *Population* and *Sample* with suitable examples. Describe Variables and Types of Variables with examples. What is the use of Statistics for an Engineer? [4]

2. For the following numbers:
   12, 23, 34, 58, 60, 65, 75, 101, 134, 54, 88, 150
   Calculate the Arithmetic Mean (AM), Geometric Mean (GM), and Harmonic Mean (HM), and show that AM > GM > HM. [3]

3. The heights (in cm) of 10 Software dep students were measured as follows: 167, 123,155, 168, 155, 164, 158, 172, 177, 180 [4]

   a) Calculate the **mean**, **median**, and **mode** of the heights. Show all steps clearly.

   b) Interpret the values: Which measure best describes the typical height of these students, and why?

4. The ages of 20 people are: [4]

18, 20, 21, 22, 18, 19, 20, 21, 22, 23, 24, 20, 19, 18, 21, 22, 23, 24, 25, 20

a) Construct a frequency distribution table for the above data.

b) Using the frequency distribution table obtained in part (a), draw a histogram.

c) Identify the age with the highest frequency.