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Course Code: STA101 **Course Title: Statistics I** **Section: 44-C** **Date: 44_C 03/10/2026**

Class Test No.: 01 **Signature of the Course Teacher: MST**

16

Q1: The following are the numbers of programming problems solved by 16 students:

3, 5, 4, 6, 5, 2, 5, 4, 3, 5, 4, 6, 5, 2, 5, 4.

Answer the following:

i. Calculate the mean and median. 02

ii. Determine the mode. 01

iii. Based on the mean, median, and mode, briefly comment on which measure of central tendency would be most appropriate for describing this dataset. 01

iv. Mention one advantage of the median over the mean. 01

Q2: Consider the following study:

A university wants to study the daily study habits of its 500 Software Engineering students. The university randomly selects 50 students and records their age, gender, number of hours studied per day, CGPA, and satisfaction level (Low, Medium, High).

Answer the following:

a) Define Variable and differentiate its types based on the source with suitable examples 03

b) Identify: i) population, ii) sample, iii) parameter, iv) statistic and v) variables. 03

c) Distinguish between discrete and continuous variable, giving one example from the above information for each. 02

d) Identify the measurement scale for: i) age, ii) gender, iii) CGPA and iv) satisfaction level 02