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Daffodil International University

Faculty of Science & Information Technology

Department of Computing and Information System

Mid-Term Examination, Summer-2026

Course Code: STA101, Course Title: Statistics – I

Level: 1 Term: 2

Exam Duration: 1.5 Hours **Marks: 25**

Answer ALL Questions

[The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]

		Question	Marks	CLO
1.	a)	Distinguish between a population and a sample by providing a definition for both, and illustrate the difference using a real-world scenario of your choice.	(3)	1
	b)	Using the following data: 13 12 6 8 15 18 17 24 28 23 27 23 21 20 15 18 23 25 23 13 17 18 19 18 Construct a frequency distribution table.	(4)	2
	c)	Compute mean, median and mode.	(6)	
	d)	Determine the value of the coefficient of range.	(2)	

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	a)	Using the following data: 20 25 25 26 28 29 30 32 33 37 56 Construct a box-plot and comment on the distribution.	(3)	3
	b)	The following data relate to the price and supplies of a commodity during a period of eight (8) years: Estimate the coefficient of correlation and interpret it.	(7)	

Price (Tk)	10	12	18	16	15	19	18	17
Supply (k,g)	30	35	45	44	42	48	47	46