



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 42 6 8 45 18 17 24 28 23 27 23 21 20 15 18 23 25 23 13 17 18 19 18	(4)	2
	c) Compute mean, median and mode.	(6)	
	d) Determine the value of the coefficient of range.	(2)	

2																								
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: <table border="1"><tr><td>Price (Tk)</td><td>10</td><td>12</td><td>18</td><td>16</td><td>15</td><td>19</td><td>18</td><td>17</td></tr><tr><td>Supply (k,g)</td><td>30</td><td>35</td><td>45</td><td>44</td><td>42</td><td>48</td><td>47</td><td>46</td></tr></table> Estimate the coefficient of correlation and interpret it.				Price (Tk)	10	12	18	16	15	19	18	17	Supply (k,g)	30	35	45	44	42	48	47	46	(7)	
Price (Tk)	10	12	18	16	15	19	18	17																
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