



Daffodil International University
Faculty of Science & Information Technology
Department of Computing and Information System
Final Examination, Spring-2026
Course Code: STA101, Course Title: Statistics-I
Level: 2 Term: 3

Exam Duration: 2 Hours
Marks: 40

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.]

	Questions	Marks	CLO & Level																								
1																											
	a) Distinguish between correlation and regression analysis.	[2]	CLO- 1 Level- 1,2,3																								
	b) Interpreter: $r = -0.02$, $r = +0.94$	[1]																									
	c) Calculate the five-number summary for the following dataset representing the daily high temperatures (in degrees Fahrenheit) recorded over two weeks: 62, 65, 68, 70, 72, 72, 75, 78, 80, 82, 85, 88, 90, 95	[5]																									
2																											
	Using the following data: <table border="1"><tr><td>Daily wages</td><td>20-30</td><td>30-40</td><td>40-50</td><td>50-60</td><td>60-70</td><td>70-80</td><td>80-90</td></tr><tr><td>Factory A</td><td>15</td><td>30</td><td>44</td><td>60</td><td>30</td><td>14</td><td>7</td></tr><tr><td>Factory B</td><td>25</td><td>40</td><td>60</td><td>35</td><td>20</td><td>15</td><td>5</td></tr></table>	Daily wages	20-30	30-40	40-50	50-60	60-70	70-80	80-90	Factory A	15	30	44	60	30	14	7	Factory B	25	40	60	35	20	15	5		CLO-2 Level- 4,3,2
	Daily wages	20-30	30-40	40-50	50-60	60-70	70-80	80-90																			
	Factory A	15	30	44	60	30	14	7																			
Factory B	25	40	60	35	20	15	5																				
a) Which factory pays higher average wages?	[4]																										
b) Calculate wages of that factory which have higher variability.	[6]																										

