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Daffodil International University
Department of Software Engineering
Faculty of Science & Information Technology
ID & Section:
Spring 2026; Course Code & Title: SE214, Algorithm Design & Analysis
Time: 35 Minutes **Marks: 15**

1) Take 2 Strings as A= Your Father's First Name, B = Your Mother's First Name, Find the longest common sequence of these two strings showing the necessary steps. 5

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2) Given Capacity of the sack: 8 kg, Calculate the maximum profit with a Dynamic approach. 5

Object	1	2	3	4	5
Profit	5	10	15	7	8
Weight	1	3	5	4	1

3) Total Amount =11, available denominator {1,5,4,10}, Find the minimum number of coins with Dynamic solution. 5