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Daffodil International University

Faculty of Science & Information Technology

Department of Computing and Information System (CIS)

Class Test 3, Summer 2026

Course Code: BI417; Course Title: INFORMATION SYSTEMS FOR BUSINESS INTELLIGENCE

Section: A

Time: 30 Mins	**Marks: 15**

Answer ALL Questions

[The figure in the right margin indicates the full marks. All portions of each question must be answered sequentially.]

1.	**Lecture 6 - JOINs and Multi-Table Analysis** a) Write one difference between INNER JOIN and LEFT JOIN. [2] b) A company has customers(customer_id, name) and orders(order_id, customer_id). Which JOIN should be used to show all customers, including customers with no order? Give one reason. [1] c) Write a simple SQL query using INNER JOIN to show customer name and order_id for customers who placed orders. [2]	**5**
2.	**Lecture 7 - Time-Based Analysis and KPIs** a) Why should YEAR and MONTH both be used when grouping monthly sales data from more than one year? [2] b) Revenue was BDT 100,000 last month and BDT 120,000 this month. Calculate the growth percentage. [2] c) Is the result an increase or a decrease? State one simple managerial interpretation. [1]	**5**
3.	**Lecture 8 - Decision Support Systems (DSS)** a) What is a Decision Support System (DSS)? [2] b) Which decision type usually benefits most from DSS: structured, semi-structured, or unstructured? [1] c) A manager sees that sales dropped 15% on a BI dashboard. Explain why the dashboard alone may not be enough to decide what to do next. Mention one DSS technique that can help. [2]	**5**

Scope: Lecture 6, Lecture 7 and Lecture 8 only.