

Daffodil International University
Faculty of Business & Entrepreneurship
Department of Business Administration
Program: BBA

Semester: Summer, 2025
Time: 2 Hour
Course Code: 0611-113
Section: 69-A,B,C,D,E

Exam: Final
Full Marks: 40
Title: ICT In Business
Course Teacher: MI,FK,TR

*[Answer **ALL** the following questions. Figures in the brackets indicate marks assigned to each question. Any kind of unfair means is strictly prohibited. Read the question attentively, then answer to the point; relevant examples will carry greater marks]*

Question No. 1 [CLO 2, Level 2]

[Marks: 5+5]

Sunrise University manages data for 15,000 students, including personal details, academic records, and tuition payment history. Currently, each department keeps its own spreadsheet files, leading to problems such as duplicate student records, inconsistent information, and difficulty in quickly generating reports. The university's management decides to implement a centralized Database Management System (DBMS) to solve these issues. **Identify** major advantages of using a DBMS for the university than the current spreadsheet-based system. **Apply** the concepts of primary key and foreign key to the university's database to maintain data integrity.

Question No. 2 [CLO 2, Level 2]

[Marks: 5+5]

A small graphic design studio has 10 computers and 2 network printers. They want a network setup where, if one cable fails, the rest of the computers can still work and it's easy to add or remove computers without disturbing the network. **Explain** the network topology that should the studio choose and **illustrate** your answer with the advantages and disadvantages of this topology.

Question No. 3 [CLO 3, Level 3]

[Marks: 5+5]

BrightPay Payroll Services manages salary payments for several small businesses. Recently, one of their employees received an email asking them to "verify their account" by clicking a link and entering their password. Soon after, the company's client payment data was accessed without permission. **Identify** the type of threat of this situation and possible consequences. **Apply** security measures the company could take to prevent such incidents in the future

Question No. 4 [CLO 3, Level 3]

[Marks: 10]

A retail chain decides to implement a centralized inventory management system where all the data is stored and processed on a central server. Store computers are used only to send requests and display the server's responses. Recently, employees have complained about slow performance during peak hours, as the server becomes overloaded with requests. **Identify** the network architecture used in the store with its advantages and disadvantages.