

Daffodil International University



Department of Computer Science and Engineering

SET: A

Course Code: CSE227

Course Title: System Analysis and design

Section: 66H

Semester: Fall 2025

Quiz: 1

Date: 15.10.25

Name :

Student ID:

Time : 40 Minutes

Time: 40 Minutes

[Answer All the following questions]

Marks: 15

Sunrise University is a large private institution offering undergraduate and postgraduate programs across multiple disciplines. The university currently faces several issues in managing its academic and administrative operations. The student enrollment system is outdated, leading to registration errors and delays during admission periods. The academic record system is scattered across departments, making it difficult for faculty to access up-to-date student performance data. Additionally, the library management system is not integrated with student accounts, often causing confusion about book availability and overdue fines. As a **system analyst**, you are tasked with examining these issues and proposing an integrated university management system to enhance accuracy, efficiency, and coordination.

1. Identify data and information in the context of student enrollment for the above system. Explain how different stages of the System Development Life Cycle (SDLC) can be applied to improve student enrollment, academic record management, and library services at Sunrise University. [6]

2. What specific analytical skills are crucial for a system analyst to possess in order to effectively analyze and troubleshoot complex systems? Can you provide from the above examples of how system analysts utilize problem-solving techniques to identify and address system inefficiencies or bottlenecks? [6]

3. How does an organization's strategic information system contribute to its long-term competitive advantage? Can you provide examples of strategic decisions that are supported by strategic information systems? [3]