ourdiu.com | Shared by Ferdosh Riyad

Daffodil International University

Department of CSE

Class Test: 03 (Section 66 I) Date: 14/12/2025

Course Code: CSE227

Course Title: System Analysis & Design

Answer the following questions: **5 x 3 = 15**

1. **IUBAT** is receiving complaints from applicants about its online admission form. Students say the form is confusing:
   - **i.** The flow of fields jumps from top to bottom and back up.
   - **ii.** The "Name" field has very limited space, while the "Address" field has extra space but is placed at the top.

   As a system analyst, identify three major design flaws in this input form and explain how you would redesign the form based on the principles of effective input design (flow, grouping, accuracy, clarity).

2. **City Group** generates monthly performance reports for top management. However, the report is a long text-based document with detailed transaction records. Managers complain that:
   - **i.** It takes too much time to understand key trends.
   - **ii.** No visual summaries (charts or graphs) are provided.

   As a system designer, describe how you would redesign the output report to improve its usefulness for top-level management. Include the type of output (graphical, summary, exception report) and explain why these changes improve decision-making.

3. A newly developed online ticket-booking system works correctly with a few users during testing. However, once the system is launched publicly, thousands of users attempt to book tickets simultaneously, and the system becomes extremely slow, causing timeouts and failures. Management asks the testing team why such issues were not detected earlier. As the system tester, identify which types of system tests should have been performed to prevent this failure (e.g., performance, stress, load, scalability tests). Explain how each test would help in detecting the issues before deployment.