



EAST WEST UNIVERSITY

Department of Computer Science and Engineering

B.Sc. in Computer Science and Engineering Program

Mid Term Examination, Spring 2024 Semester

Course: CSE 430 Software Testing and Quality Assurance, Section 1
Instructor: Anika Tabassum
Full Marks: 30
Time: 1 Hour

Note: There are 4 (FOUR) questions, answer ALL of them.

1. Suppose you are a software tester. The project you are now going to test finds out the number and location of a stall in the book fair, It takes the name of the stall as input and shows a map of the stall as output. As the book fair is nearby, there is very little time on your hands to test the program. Now, as a tester should you test the program? What are the **short-term** benefits you will get from testing the application? [CO2, C3, Marks: 1+3=4]
2. Which SQA components support the managerial control of software development projects and maintenance services? Briefly describe what the components include. [CO1, C3, Marks: 4+2=6]
3. Consider a software application that accepts user input for the name and marks of a student, with a valid marks range of **40 to 100** and a name as String up to **8 characters**. The output shows the grades of a student. Using the **robustness testing technique**, show the possible test cases. [CO2, C3, C4, Marks= 7]
4. Let's consider a system that determines whether a person is eligible for a driver's license. If a person's **age** is from **18 to 40**, **he is from Bangladesh**, **passes the driving test**, and **does not have any previous record of traffic violence**, then he is **eligible for a driving license**. If someone is from outside Bangladesh, **he has to have a driving license from his home country to get a driving license here**. If anyone has any previous record of traffic violence, **then he must pay a \$3000 fine to get a driving license**. Consider all the conditions and prepare test cases using **decision table-based technique** considering the conditions stated above. [CO2, C3, C4, Marks= 13]

Good luck!