


National University of Computer and Emerging Sciences, Lahore Campus

	Course Name:	Software Quality Engineering	Course Code:	SE3002
	Degree Program:	Software Engineering	Semester:	Spring 2022
	Exam Duration:	60 Minutes	Total Marks:	40
	Paper Date:	10th Nov, 2022	Weight	10%
	Section:	5A & 5B	Page(s):	7
	Exam Type:	Midterm-2		

Student : Name: _____ Roll No. _____ Section: _____

Instruction/Notes:

Attempt all questions on the question paper. Answer sheets are not required.
Take Assumptions where required and note them down along with your answers.

Question #1:[2+3]

a) What are the main four activities for Risk-Based Testing?

b) List three techniques that can be used to identify risks for a product?

Question #2:[5]

Your company is building a module for an existing system that can generate reports for Work Orders (Service Requests). Following are the major requirements from the customer:

- The work-order record includes (Date created, Date Completed, Status, Engineer assigned to task, location where they need to work)
- The report therefore, should be able to show
 - All completed work orders in last week, last month, last 60 days
 - All completed work orders by an engineer in last week, last month, last 60 days
 - All completed work orders for a location in last week, last month, last 60 days

Read the following test scenarios. Identify associated Risks and set severity

- i) Verify that proper message is displayed in report when user views all completed orders in last week when there is no event in last week
- ii) Verify that all the closed orders for Site A are displayed in report when completed orders for Site A are viewed
- iii) Verify that when you have generated the report of all completed work orders for last week and a new order is completed by someone in the system. Then the report gets automatically updated to show the newly completed work order
- iv) Verify that the report is generated within 1 ms for upto 10000 work orders.
- v) Verify that every alternate line has colored background so that it's easier to identify and read all columns in a row (Similar to alternate colour formatting in excel sheet)

Question #3:[5]

Draw the Gitflow and identify the different test environments that will be required based on the gitflow

Question #4:[10]

```
<!DOCTYPE html>
<html>
<body>

<h2>HTML Forms</h2>

<form action="/action_page.php">
  <label for="fname">First name:</label><br>
  <input type="text" id="fname" name="fname"
value="John"><br>
  <label for="lname">Last name:</label><br>
  <input type="text" id="lname" name="lname"
value="Doe"><br><br>
  <input type="submit" value="Submit">
</form>

<p>If you click the "Submit" button, the form-
data will be sent to a page called
"/action_page.php".</p>

</body>
</html>
```

HTML Forms

First name:

Last name:

If you click the "Submit" button, the form-data will be sent to a page called "/action_page.php".

By looking at the above code and layout, write a basic UI test to fill the form and submit.

Css selector cheats

- .classname
- #id
- [attribute=value]

Question #5:[5+7+3]

- a) What are the two ways of Defect prevention? Explain them briefly and give an example for each.
- b) List all quality management principles

- c) List any 3 action items to improve People Engagement principles.