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Sona College of Technology (Autonomous), Salem -5.

SET - 2

Department of CSE

Continuous Internal Evaluation Test - 2

U15CS936 – Software Testing

Common to All sections (IV Year / VII Semester)

Date : 22.09.2021				Duration : 1 ½ hours				Levels of B.T	Course Outcomes
Time slot : 00.00 To 00.00 am/pm				Marks : 50					
PART – A				Answer All Questions (6 x 2 = 12 Marks)					
1.	Bugzilla allow the user to track multiple projects. Explain							LOTS	2
2.	During test execution, the test manager describes the following situation to the project team: ‘90% of the test cases have been run. 20% of the test cases have identified defects. 127 defects have been found. 112 defects have been fixed and have passed confirmation testing. Of the remaining 15 defects, project management has decided that they do not need to be fixed prior to release.’ What would be the interpretation of this test status report?							HOTS	2
3.	What is Test Data? Why is it important?							LOTS	3
4.	What are the guidelines for selecting a testing tool?							LOTS	3
5.	There are 1200 estimated function points in a project. Calculate the total number of test cases in the system and the number of test cases in acceptance testing. Also calculate the defect density (number of total defects is 236) and test coverage.							HOTS	3
6.	During an early period of test execution, a defect is located, resolved and confirmed as resolved by retesting, but is seen again later during subsequent test execution. Comment on this statement.							HOTS	3
PART – B				Answer All questions (2 x 5 = 10 Marks)					
7.	The functionalities in the railway reservation system are:							HOTS	2
	S.No	Functionality	Function ID in SRS	Test cases					
	1	Login the system	F3.4	T1					
	2	View reservation status	F3.5	T2					
	3	View train schedule	F3.6	T3					
	4	Reserve seat	F3.7	T4					
	5	Cancel seat	F3.8	T5					
	6	Exit the system	F3.9	T6					
	Prepare the test log for the ‘View train schedule’ functionality.								
8.	Describe the significance of test data management.							LOTS	3
PART – C				Answer All questions (2 x 14 = 28 Marks)					
9.	(a)	(i)	You receive the following e-mail from one of the dealers: <i>I entered an order for a Racinax 917X in midnight violet. During the upload, I got an ‘unexpected return value’ error message. I then checked the order and it was in the system. I think the internet connection might have gone down for a moment our television went blank at the same time and we use a cable modem for internet access.</i> Write an IEEE 829 compliant incident report based on this e-mail, and note any elements of such a report which might not be available based on this e-mail alone.				7	LOTS	2
		(ii)	Successful implementation of TDM in functional testing projects can alleviate most of the common issues and assure the completeness of testing from the business perspective. Explain				7	LOTS	3
			(OR)						
	(b)	(i)	Discuss the key components of Testopia architecture.				7	LOTS	2

		(ii)	What factors would an organization take into account in preparing test data for performance testing? Explain	7	LOTS	3																									
10.	(a)	(i)	<div>Consider the sample dataset given below:<table><tr><th>S.No</th><th>Test case</th><th>Test data requirements</th><th>Reusable</th><th>Remarks</th></tr><tr><td>1</td><td>TC_EMR_Login_01</td><td>Open EMR username</td><td>Y</td><td>Min 4&amp;Max 20</td></tr><tr><td>2</td><td>TC_EMR_Login_02</td><td>Open EMR password</td><td>Y</td><td>Min 4&amp;Max 20</td></tr><tr><td>3</td><td>TC_EMR_Login_03</td><td>Open EMR patient name</td><td>N</td><td>Min 3&amp;Max 20</td></tr><tr><td>4</td><td>TC_EMR_Login_04</td><td>Open EMR patient SSN</td><td>N</td><td>&lt;9&gt; digits</td></tr></table></div> <div>For the above dataset, prepare the test data for equivalence partition, boundary condition and decision table data set categories.</div>	S.No	Test case	Test data requirements	Reusable	Remarks	1	TC_EMR_Login_01	Open EMR username	Y	Min 4&Max 20	2	TC_EMR_Login_02	Open EMR password	Y	Min 4&Max 20	3	TC_EMR_Login_03	Open EMR patient name	N	Min 3&Max 20	4	TC_EMR_Login_04	Open EMR patient SSN	N	<9> digits	7	HOTS	3
S.No	Test case	Test data requirements	Reusable	Remarks																											
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4	TC_EMR_Login_04	Open EMR patient SSN	N	<9> digits																											
		(ii)	Let’s assume in your application under test you want to create a new user with user information, for that you need to login into the application and navigate to USERS menu > New User, then enter all the details in the ‘User form’ like, First Name, Last Name, Age, Address, Phone etc. Once you enter all these information, you need to click on ‘SAVE’ button in order to save the user. Now you can see a success message saying, “New User has been created successfully”. But when you entered into your application by logging in and navigated to USERS menu > New user, entered all the required information to create the new user and clicked on SAVE button. BANG! The application crashed and you got one error page on the screen. Prepare a bug report for the above scenario.	7	HOTS	3																									
			(OR)																												
	(b)	(i)	Consider the flight reservation application test scenarios given below. Document all possible test data in Excel test case template. Test Scenario 1: Check the Login Functionality Test Scenario 2: Check that a New Order can be created Test Scenario 3: Check that an existing Order can be opened Test Scenario 4: Check that a user, can FAX an order Test Scenario 5: Check that the information displayed in the HELP section is correct Test Scenario 6: Check that the information displayed in About section, like version, programmer name, copy right information is correct	7	HOTS	3																									
		(ii)	Describe, using examples, how risk analysis and risk management can be used for test planning.	7	HOTS	3																									
*****																															

<b>Bloom's</b>	<b>LOTS</b>	<b>HOTS</b>	<b>Total</b>
<b>Percentage</b>	<b>50</b>	<b>50</b>	<b>100</b>

**Note:** *Kindly don't change the above Levels of Bloom's Taxonomy and Course Outcomes. All Faculty are requested to set the QP's for 1 ½ units compulsorily. This enables the mapping of the course outcomes and thus its attachment.*