UNIVERSITY OF MUMBAI
Practical Examination – NOV 2017
M.C.A Semester – III
LABORATORY ML303
[DBMS & Software Testing]

Duration: 3 hours   **Seat No: _____**

Marks: 40 Marks

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PART B

Q.1	A)	Create a virtual object for the italic button in MS Word application. Record a test case using virtual object, italic the text and show its use. Run the text script and analyze the results.	10
	B)	Draw state transition diagram five states of a process.	5

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PART B

Q.1 A)	Open webmail and create two new users. Record a test case to open a webmail application and enter login details for sign in and then sign out. Using data table parameterization login the webmail with both the user ids. Save the test and run the test script. Note the result and explain parameterization using data table.	10
B)	Design **Equivalence classes** for the website of amazon for a text box for quantity which accepts values from 1 to 5 Also write test cases for the same.	5

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PART B

Q.1 A)	Open "Flights" application and Record a test case for inserting any order. Insert a Synchronization point with the delay of 20secs.Save the test script and run the test script. Analyze the results and note your observation. What is the use of Synchronization point?	10
B)	Draw state transition diagram for Reservation system	5

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PART B

Q.1 A)	Record a test case for Word pad application. Add a Text area checkpoint and save the test. Update the text in word pad and run the test script. Explain the difference before and after.	10
B)	Suppose you have very important tool at office, accept valid User Name and Password field to work on that tool, and accept minimum 8 characters and maximum 12 characters. Valid range 8-12, Invalid range 7 or less than 7 and Invalid range 13 or more than 13. Write Test Cases for Valid partition value, Invalid partition value and exact boundary value.	5

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PART B

Q.1 A)	Open "Flights" application and record a test case for inserting any order. Insert msgbox displaying "Welcome" in the recorded script from expert view .Save the test and Run the test script.	10

B)	Draw CFG and find **Cyclomatic Complexity**:
	begin
	int x, y, power;
	float z;
	input (x, y);
	if (y<0)
	power=-y;
	else
	power=y;
	z=1; 10
	while (power!=0){
	z=z*x;
	power=power-1;
	}
	if (y<0)
	z=1/z;
	output(z);
	end **;**
		5

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PART B

Q.1 A)	Record a test script In QTP to Open and Exit **Flight application.** Enter **5 different** Agent names and Password in Notepad. Parameterize the two variables Agent name and Password	10

B)	For the Following Code draw Control Flow Graph. How many test cases are required for path coverage?
	 if $x \neq 0$ then
	 y := 5;
	 else
	 z := z – x;
	 end if;
	 if z > 1 then
	 z := z / x;
	 else
	 z := 0;
	 end if;
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PART B

Q.1 A)	Open "Flights" application and record a test case for inserting any order. Add a standard checkpoint. Save the test and Run the test script.Note the result and explain what is the use of Standard checkpoint ?	**10**
B)	Generate **Boundary value** test case for following example. "A desert cooler sales person sold cooler fans, pumps and bodies that were made by a cooler maker. Fans cost $45, pumps cost $30 and bodies cost $25. The salesperson had to sell at least one complete cooler per month, and the production limits were such that the most the sales person could sell in a month was 70 fans, 80 pumps and 90 bodies. The sales person used to send the details of sold items to the cooler maker. The cooler maker then computed the sales person's commission as follows: 1) 10% on sales upto and including $1000. 2) 15% of the next $800. 3) And 20% on any sales in excess of $1800	**5**

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PART B

Q.1 A)	Create a test script for Click on **Subscript Button in MS Word** Open Ms Word application and Create a **virtual object** for the subscript Button in Ms Word application. Record a test script again using virtual object. Observe the difference in script	10
B)	Derive Equivalence Class Partitioning Test Cases for the following example. Consider a software module that is intended to accept the names of grocery items and a list of different sizes the item comes in ,specified in ounces. The specifications state that the item name is to be alphabetic characters,2 to 15 characters in length. Each size may have a value in range 1 to 48. The sizes are to be entered in ascending order. A max of 5 sizes may be entered for each item. The item name is to be entered first, followed by a comma, then followed by list size. A comma will be used to separate sizes. Blank spaces are to be ignored.	5

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PART B

Q.1 A)	Open a "Flights" application and record a test case for inserting order. Add a text checkpoint on "Fly from" and save the test .Run the test and analyse the results explain the use of Text checkpoint	10
B)	Write at least 10 test cases for the **IRCTC home page**	5

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PART B

Q.1 A)	Open a "Paint" application and draw an image. Open a new test in QTP and add bitmap checkpoint on the drawn image. Save the test and run the testscript. After that make changes to image then again run the testscript. Note the difference before and after ,and explain the use of Bitmap checkpoint.	10

B)	Find **Data flow anomalies** in the given code and write correct code
	 n := 0
	 read (x)
	 n := 1
	    while x > y do
	     begin
	      read (y)
	      write(n*y)
	      x := x - n
	     end
		5

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PART B

Q.1 A)	Create a **Database checkpoint** for **MS-Access** table having 2 fields - **agent name and password** (number of records: 4). Run the test script showing successful validation for 8 records.	10

B)	Find **Data flow anomalies** in the given code and write correct code
	 n := 0
	 read (x)
	 n := 1
	    while x > y do
	     begin
	       read (y)
	       write(n*y)
	       x := x - n
	    end
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PART B

Q.1 A)	Record a test case to Open "Google.com" web page and add a Bitmap checkpoint. Save the test and run the test script. Note the result and explain use of Bitmap checkpoint	10

B)	Draw Control Flow graph and calculate cyclomatic complexity for following program.
	Integer i, j, k
	 read i , j , k
	  if (i < j)
	  if (j < k)
	   i = k;
	 else
	   k = i;
	  end if
	  end if
	  print i,j,k
	  end
		5

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PART B

Q.1 A)	Create a MS Access file for books database storing the books details. Open new test script in QTP and insert database checkpoint for MS Access file. Run the test script. After that update books database and then again run the test script. Explain the difference before and after update.	10
B)	Draw a cause and effect graph for ATM banking transaction system	5

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PART B

Q.1 A)	Create a **Database checkpoint** for **MS-Access** table having 2 fields - **agent name and password** (number of records: 4). Run the test script showing successful validation for 8 records	10
B)	Given the following fragment of code, how many tests are required for 100% Statement, decision and path coverage? 1.Read P,Q 2.if P+Q>100 3. print "Large" 4.End if 5.if P>50 6. print "P large" 7.End if	5

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PART B

Q.1 A)	Record a test script in QTP to **Login and Logout** using **Flight application**. Replay the test script. Record a bug in **Bugzilla**. View and Modify it	10
B)	Generate **Boundary value** test case for following example. "A desert cooler sales person sold cooler fans, pumps and bodies that were made by a cooler maker. Fans cost $45, pumps cost $30 and bodies cost $25. The salesperson had to sell at least one complete cooler per month, and the production limits were such that the most the sales person could sell in a month was 70 fans, 80 pumps and 90 bodies. The sales person used to send the details of sold items to the cooler maker. The cooler maker then computed the sales person's commission as follows: 1) 10% on sales upto and including $1000. 2) 15% of the next $800. And 20% on any sales in excess of $1800	5

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PART B

Q.1 A)	Record a test case for the rediff.com page and add a synchronization point for displaying the rediffmail window contained in rediff.com .Add a synchronization point with the delay of 20seconds.Save the test script and run the test script. Write your analysis. What is the use of synchronization point?.	10
B)	Generate Boundary value test case for following example. A store in the city offers different discount depending on the purchase made. In order to test the software that calculates the discounts, we can identify the range of purchase values that earn different discounts. 1) Rs.1 upto Rs.50 has no discount 2) Rs. 50 upto Rs.200 has 5% discount 3) Rs.201 upto Rs.500 has 10% discount 4) Above Rs.501 has 15% discount.	5

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PART B

Q.1 A)	Create a virtual object for the Underline button in Ms Word application. Record a test case using virtual object, underline the text and show its use. Run the text script and analyse the results.	10
B)	Consider an example program where we consider "Pay" having a valid range of inputs as 12000 to 35000. Amount of Tax is calculated by the program with following assumptions: 1) Pay up to a sum of Rs. 15000 – Tax Value is Zero 2) Pay from 15001 to 25000 – Tax value is 18 % of Pay 3) Pay above 25000 – Tax value is is 20% of Pay Create equivalence classes for the above data.	5

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PART B

Q.1 A)	Create a script in QTP to print values of any two **User Defined** and two **BuiltIn** **Environment Variables .**	10
B)	Write atleast eight **test cases for** withdrawing money from ATM.	5

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- *Once you finish with the code show it to the examiner for testing. Attach the printout of the program and its out put along with the answer book.*

PART B

Q.1 A)	Record a test case for opening the "Flights" application and open the order by providing order no. Use Random No. parameterization to open various orders. Save the test and run the test script. Observe the results and explain random no parameterization	10
B)	Create equivalence classes and boundary value analysis for the following data . In a system designed to work out the tax to be paid: An employee has £4000 of salary tax free. The next £1500 is taxed at 10%. The next £28000 after that is taxed at 22%. Any further amount is taxed at 40%.	5

UNIVERSITY OF MUMBAI
Practical Examination – NOV 2017
M.C.A Semester – III
LABORATORY ML303
[DBMS & Software Testing]

Duration: 3 hours   **Seat No:** _____

Marks: 40 Marks

General Instructions:

- *A practical consists of two parts: Part A (**DBMS**) and Part B (**Software Testing**) where*
    1. *Part A consists of 25 marks.*
    2. *Part B consists of 15 marks.*
- ***Viva for Part A and Part B will be taken at the time of practical as well as after the practical if required.***
- *The figures to the right indicate full marks.*
- *Create a folder with name of your seat Number in the folder "MCA_SEM_III_2017"on the desktop.*
- *Answer to the questions, if any, should be written in the answer book. Use the last page for rough work.*
- *You are allowed to use help files / documentation of the software/language that you are using..*
- *If you are using any additional information, state it clearly.*
- *Once you finish with the code show it to the examiner for testing. Attach the printout of the program and its out put along with the answer book.*

PART B

Q.1 A)	Create a script in QTP to demonstrate **Action Reusability**: Create test 1 with Login and Logout Actions. Create Test 2 with opening the order in flight application using Login and Logout actions imported from Test 1. Replay the script .	10
B)	In an Examination a candidate has to score minimum of 24 marks in order to clear the exam. The maximum that he can score is 40 marks. Create test case .	5