Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment No.....



Faculty of Engineering End Sem (Odd) Examination Dec-2022 OE00046 Software Testing

Branch/Specialisation: Computer Programme: MCA

Application

Duration: 3 Hrs. Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.

Q.1 (N	(ICQs)	should be written in full instea	d of only a, b, c or d.					
Q.1	i.	Locating or identifying the b	ugs is known as	1				
		(a) Debugging	(b) Testing					
		(c) Coding	(d) Maintenance					
	ii.	The defects that needed to f	ix immediately because it may cause	1				
		great damage to the product i	is come undercategory.					
		(a) Critical (b) High	(c) Medium (d) Low					
	iii.	Boundary value testing:		1				
		(a) Is the same as equivalence	ce partitioning					
		(b) Tests combinations of in	put circumstances					
		(c) Test boundary conditions	s on, below and above the edges of					
		input and output equival	ence classes					
		(d) Is used in white box testi	ng strategy					
	iv.	After which phase, we can pr	roceed to the white box testing?	1				
		(a) After coding phase	(b) After SRS creation					
		(c) After designing phase	(d) After installation phase					
	v.	This thing is checked in w	thich type of testing "User interface	1				
		designed by the designer is user friendly or not."						
		(a) Usability	(b) Compatibility					
		(c) Smoke	(d) Configuration					
	vi.	Software testing which	is done without planning and	1				
		documentation is known as-						
		(a) Smoke testing	(b) Sanity testing					
		(c) Usability testing	(d) Ad-hoc testing					
			P.T	O.				

	vii.	Creating ensures c	complete test coverage.	1
		(a) Test cases	(b) Test scenario	
		(c) Test Plan	(d) Test criteria	
	viii.	When a new defect is review	wed by a QA lead and if the defect is	1
		valid, then the status of the d	efect would be	
		(a) New (b) Open	(c) Paused (d) Verified	
	ix.	is not a selenium co	omponent.	1
		(a) Selenium IDE	(b) Maven	
		(c) WebDriver	(d) Selenium Grid	
	х.	Which scripting language is	used in QTP?	1
		(a) Test Script Language	(b) Java Script	
		(c) ASP	(d) VB Script	
Q.2	i.	Define software testing and o	liscuss its objectives.	2
	ii.	Explain different roles in sof	tware testing process.	3
	iii.	Explain defect management	life cycle in detail.	5
OR	iv.	Write brief note on role of te	sting in SDLC.	5
Q.3	i.	Define boundary value analy	sis testing with example.	3
	ii.	Explain any one white be techniques with examples.	ox and any one black box testing	7
OR	iii.	Design test case for the follow	wing situation:	7
		column 2 should be a digit. values then update is made. i.e. neither A nor B, then me	should be either A or B and in the If both columns contain appropriate If the input of column 1 is incorrect, ssage X will be displayed. If the input input is not a digit, then message Y	
Q.4	i.	Differentiate between sanity		4
	ii.	•	cycle in detail with suitable diagram.	6
OR	iii.	Explain the following with so (a) Regression testing (c) Performance testing	uitable example: (b) Exploratory testing	6

Q.5	i.	Is test scenario and test cases are independent to each other?	4
		Justify your answer.	
	ii.	Explain Test scenario and test case with an example. Also explain	6
		the steps to create test scenarios for an application.	
OR	iii.	Define defect life cycle with a neat diagram. Also explain all states of defect lifecycle.	6
Q.6		Attempt any two:	
	i.	Explain automation testing and its importance. Also explain	5
		automation testing process in detail.	
	ii.	What is the need of a test management tool? Also explain the	5
		features of test management tools and list out some most used test	
		management tools.	
	iii.	What do you mean by selenium? Explain the following selenium	5
		tools:	
		(a) Selenium IDE (b) Selenium RC	
		(c) Web Driver (d) Selenium Grid	
		(a) belefindin Gird	

Scheme of Marking



Faculty of Engineering End Sem (Odd) Examination Dec-2022 OE00046 - Software Testing

Programme: MCA Branch/Specialisation:

Note: The Paper Setter should provide the answer wise splitting of the marks in the scheme below.

Q.1	i)	Locating or identifying the bugs is known as b)Testing	1
	ii)	The defects that needed to fix immediately because it may cause great damage to the product is come undercategory? a)Critical	1
	iii)	Boundary value testing: c)Test boundary conditions on, below and above the edges of input and output equivalence classes	1
	iv)	After which phase, we can proceed to the white box testing? a)After coding phase	1
	v)	This thing is checked in which type of testing "User interface designed by the designer is user friendly or not." a)Usability	1
	vi)	Software testing which is done without planning and Documentation is known as d)Adhoc Testing	1
	vii)	Creatingensures complete test coverage b)Test scenario	1
	viii)	When a new defect is reviewed by a QA lead and if the defect is valid, then the status of the defect would be	1
	ix)	is not a Selenium Component b)Maven	1

	x)	Which scripting language is used in QTP ? d)VB Script	1
Q.2	i.	Define Software Testing and discuss its objectives. Definition 1 Mark Objectives 1 Mark	2
	ii.	Explain different roles in Software testing process Each role 1.5 Marks	3
	iii.	Explain defect management life cycle in detail. Each phase in life cycle 1 Mark	5
OR	ív.	Write brief note on role of testing in SDLC. Each phase 1 Mark	5
Q.3	Ĭ.	Define Boundary value analysis testing with example Definition 1 mark Example 1 Mark	2
	ii.	Explain any two white box and any two black box testing techniques with examples. Each Technique 2 Marks Definition 1 Mark Example 1 Mark	8
OR	iii.	Design test ease for the following situation: The character in column 1 should be either A or B and in the column 2 should be a digit. If both columns contain appropriate values then update is made. If the input of column 1 is incorrect, i.e. neither A nor B, then message X will be displayed. If the input in column 2 is incorrect, i.e. input is not a digit, then message Y will be displayed Each steps of the solution 2 Marks	8
Q.4	i.	Differentiate between Sanity testing and Smoke testing with suitable example. Definition of both testing 1 Mark Differences between them 1 mark Example 1 mark	3
	ii.	Explain Software Testing Life cycle in detail with suitable diagram. Diagram 1 Mark	7

		Each phase(6 phases) 1 marks	
OR	iii.	Explain the following with suitable example: a. Regression Testing 2 marks b. Exploratory testing 2 mark c. Performance Testing 3 mark	7
Q.5	i.	Is test scenario and test cases are independent to each other? Justify your answer. For correct answer 1.5 mark Justification 2.5 Marks	4
	ii.	Explain Test scenario and test case with an example. Also explain the steps to create test scenarios for an application. Definition test scenario and test case: 2 marks Example of both: 2 marks Steps to create test scenario: 2 Marks	6
OR	iii.	Define Defect life cycle with a neat diagram. Also explain all states of Defect lifecycle. Definition 2 Marks Diagram 2 Marks All states 2 Marks	6
Q.6		Attempt any two:	
	i.	Explain automation testing and its importance. Also explain automation testing process in detail. Explanation :1 marks Importance of Automation testing: 1.5 marks Automation testing process: 2.5 Marks	5
80	ii.	What is the need of a test management tool? Also explain the features of Test management tools and list out some most used test management tools. Definition and need of test management tool: 2 marks Feature: 2 marks List of test management tool: 1 mark	5
	III.	What you mean by Selenium? Explain the following Selenium tools: a) Selenium IDE b) Selenium RC c) Web Driver d) Selenium Grid	5

Explanation of Selenium: 1 mark
Selenium IDE: 1 mark
Selenium RC: 1 mark
Selenium Grid: 1 mark
Web driver: 1 mark
