

Enrollment No.....



Faculty of Science / Engineering

End Sem (Odd) Examination Dec-2022

CA3SE07 Software Testing

Programme: BCA / BCA-

Branch/Specialisation: Computer

MCA Integrated

Application

Duration: 3 Hrs.**Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. In which test design each input is tested at both ends of its valid range and just outside its valid range? **1**
 (a) Boundary value testing
 (b) Equivalence class partitioning
 (c) Boundary value testing and Equivalence class partitioning
 (d) Decision tables
- ii. What do you understand by V&V in software testing? **1**
 (a) Verified Version
 (b) Version Validation
 (c) Verification and Validation
 (d) Version Verification
- iii. Unit testing is done by- **1**
 (a) Users (b) Developers
 (c) Customers (d) None of these
- iv. Which of the following is NOT a white box technique? **1**
 (a) Statement testing (b) Path testing
 (c) State transition testing (d) Data flow testing
- v. Which is a black box testing technique appropriate to all levels of testing? **1**
 (a) Acceptance testing (b) Regression testing
 (c) Equivalence partitioning (d) Quality assurance
- vi. Configuration testing deals with hardware while compatibility testing deals with software **1**
 (a) True (b) False (c) Can't say (d) None of these

P.T.O.

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vii.	Testing used during website testing is/are	1
	(a) Black box testing (b) Gray box Testing	
	(c) Usability testing (d) All of these	
viii.	Website components tested during website testing is/are	1
	(a) Text (b) Hyperlinks (c) Graphics (d) All of these	
ix.	Beta testing is done at	1
	(a) User's end	
	(b) Developer's end	
	(c) User's & developer's end	
	(d) None of these	
x.	Which is not the state of bug in bug life cycle?	1
	(a) Open (b) Resolved (c) Closed (d) Critical	
Q.2	i. Differentiate between static and dynamic testing?	2
	ii. What is 'test to pass' and 'test to fail' in black box testing?	3
	iii. What is data testing? Explain approaches of data testing in detail.	5
OR	iv. What is State testing? Explain using suitable example and diagram.	5
Q.3	i. Define static white box testing?	2
	ii. Explain approach of peer reviews, walkthroughs and inspections in detail.	8
OR	iii. What is unit testing? Explain the role of stub and driver in top-down and bottom up testing.	8
Q.4	i. What is accessibility testing? Why it is necessary.	3
	ii. What is configuration testing? How you can approach for configuration testing? Explain in detail.	7
OR	iii. What is compatibility testing? Explain backward and forward compatibility using appropriate example.	7
Q.5	i. Why document testing is important? Explain.	4
	ii. Explain any six areas that you need to consider when performing configuration and compatibility testing of a website.	6
OR	iii. What is gray box testing? Explain approach of black box testing of a website.	6

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Q.6	Attempt any two:	
i.	What are test tools and automation? Explain macro recording and playback and programmed macros in automation.	5
ii.	What is random testing? Explain smart monkey and dumb monkey.	5
iii.	Explain bug's life cycle using diagram?	5

Marking Scheme
CA3SE07 Software Testing

Q.1	i.	In which test design each input is tested at both ends of its valid range and just outside its valid range? a) Boundary value testing	1
	ii.	What do you understand by V&V in software testing? c) Verification and Validation	1
	iii.	Unit testing is done by b) Developers	1
	iv.	Which of the following is NOT a white box technique? c) State transition testing	1
	v.	Which is a black box testing technique appropriate to all levels of testing? c) Equivalence partitioning	1
	vi.	Configuration testing deals with hardware while compatibility testing deals with software a) True	1
	vii.	Testing used during website testing is/are d) All of the mentioned	1
	viii.	Website components tested during website testing is/are d) All of the mentioned	1
	ix.	Beta testing is done at a) User's end	1
	x.	Which is not the state of bug in bug Life Cycle? d) Critical	1
Q.2	i.	Differentiate between Static and Dynamic testing? Definition: 2 Marks	2
	ii.	What is 'Test to Pass' and 'Test to Fail' in Black box testing? 'Test to Pass' : 1.5 Marks 'Test to Fail' : 1.5 Marks	3
	iii.	What is Data Testing? Explain approaches of Data Testing in detail. Definition: 2 Marks	5

		Any three approach: 3 Marks	
OR	iv.	What is State testing? Explain using suitable example and diagram. Definition: 2 Marks two approach: 3 Marks	5
Q.3	i.	Define static white box testing? Definition: 2 Marks	2
	ii.	Explain approach of peer reviews, walkthroughs and inspections in detail. peer reviews : 2 Marks walkthroughs : 3 Marks inspections : 3 Marks	8
OR	iii.	What is unit testing? Explain the role of stub and driver in top-down and bottom up testing. unit testing Definition: 2 Marks Top-Down: 3 Marks Bottom Up testing: 3 Marks	8
Q.4	i.	What is Accessibility testing? Why it is necessary. Definition: 1 Marks Explanation: 2 Marks	3
	ii.	What is configuration testing? How you can approach for configuration testing? Explain in detail. Configuration testing Definition: 2 Marks Approach Explanation: 5 Marks	7

OR	iii.	What is compatibility testing? Explain backward and forward compatibility using appropriate example. Definition: 2 Marks Approach Explanation in at least five step : 5 Marks	7
Q.5	i.	Why Document Testing is important? Explain. Definition: 1 Marks Explanation: 3 Marks	4
	ii.	Explain any six areas that you need to consider when performing configuration and compatibility testing of a website. Six areas: 6 Marks	6
OR	iii.	What is gray box testing? Explain approach of black box testing of a website. Gray box testing Definition: 1 Marks Black box testing of a website: 5 Marks	6
Q.6		Attempt any two:	
	i.	What are test tools and automation? Explain Macro Recording and Playback and Programmed Macros in automation. Test tools and automation Definition: 2 Marks Macro Recording and Playback : 1.5 Marks Programmed Macros: 1.5 Marks	5
	ii.	What is random testing? Explain smart monkey and dumb monkey. Random testing Definition: 1 Marks Smart monkey and dumb monkey: 4 Marks	5

	iii.	Explain bug's life cycle using diagram? Diagram: 1 Marks Explanation of bug's life cycle: 4 Marks	5
