

Enrollment No.....



Faculty of Science
End Sem (Odd) Examination Dec-2018
CA3SE07 Software Testing

Programme: BCA

Branch/Specialisation: Computer
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. The longer a fault exists in software 1
 - (a) The more tedious its removal becomes
 - (b) The more costly it is to detect and correct
 - (c) The less likely it is to be properly corrected
 - (d) All of these
 - ii. Behavioural testing is 1
 - (a) White box testing (b) Black box testing
 - (c) Grey box testing (d) None of these
 - iii. White Box techniques are also classified as 1
 - (a) Design based testing (b) Structural testing
 - (c) Error guessing technique (d) None of these
 - iv. Which granularity level of testing checks the behaviour of module cooperation? 1
 - (a) Unit Testing (b) Integration Testing
 - (c) Acceptance Testing (d) Regression Testing
 - v. Configuration testing deals with hardware while compatibility testing deals with software 1
 - (a) True (b) False (c) Can't say (d) None of these
 - vi. All software has a user interface and therefore must be tested for usability. 1
 - (a) True (b) False (c) Can't say (d) None of these

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- vii. During security testing the tester plays the role of the individual who desires to_____ . **1**
(a) Penetrates the system (b) Penetrates the listener
(c) Both (a) and (b) (d) None of these
- viii. Testing error messages falls under documentation testing. **1**
(a) True (b) False (c) Can't say (d) None of these
- ix. A set of inputs, execution preconditions and expected outcomes is known as a **1**
(a) Test plan (b) Test case
(c) Test document (d) Test Suite
- x. Acceptance testing is also known as **1**
(a) Grey box testing (b) White box testing
(c) Alpha Testing (d) Beta testing
- Q.2 i. What is Dynamic Black-Box Testing? **2**
ii. Explain test-to-pass and test-to-fail approach of testing. **3**
iii. What do you mean by Static Black-Box Testing? How you can perform High-Level Review of the Specification? **5**
- OR iv. Explain Equivalence Partitioning and boundary condition testing using suitable example. **5**
- Q.3 i. What's the difference between dynamic white-box testing and debugging? **3**
ii. What do you mean by static white-box testing? Explain Formal Reviews along with Peer Reviews, Walkthroughs and Inspections in detail. **7**
- OR iii. How do we ensure data and code coverage during testing? Explain different form of Code Coverage using suitable example. **7**
- Q.4 i. Write difference between Configuration Testing and Compatibility Testing? **2**
ii. Explain Backward and Forward Compatibility using suitable example. **3**
iii. What do you mean by Data Sharing Compatibility? Explain any three examples of Data Sharing Compatibility. **5**

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- OR iv. What is Usability Testing? Explain different types of disabilities could affect software usability? **5**
- Q.5 i. What is Gray-Box Testing? **2**
ii. In what three ways does good documentation contribute to the product's overall quality? **3**
iii. What basic elements of a web page can easily be tested with a black-box approach? Explain testing of each element in detail. **5**
- OR iv. Explain about different areas that you need to consider when performing configuration and compatibility testing of a website. **5**
- Q.6 i. What is Beta Testing? **2**
ii. What are few benefits of using software test tools and automation? **3**
iii. What is bug-tracking system? List a few reasons that a database bug-tracking system is so much more useful than a paper-based system. **5**
- OR iv. Explain basic states of a software bug's life cycle along with the two common additional states? **5**

Marking Scheme
CA3SE07 Software Testing

Q.1	i.	The longer a fault exists in software (d) All of these		1
	ii.	Behavioral testing is (b) Black box testing		1
	iii.	White Box techniques are also classified as (b) Structural testing		1
	iv.	Which granularity level of testing checks the behavior of module cooperation? (b) Integration Testing		1
	v.	Configuration testing deals with hardware while compatibility testing deals with software (a) True		1
	vi.	All software has a user interface and therefore must be tested for usability. (a) True		1
	vii.	During security testing the tester plays the role of the individual who desires to_____ . (a) Penetrates the system		1
	viii.	Testing error messages falls under documentation testing. (a) True		1
	ix.	A set of inputs, execution preconditions and expected outcomes is known as a (b) Test case		1
	x.	Acceptance testing is also known as (d) Beta testing		1
Q.2	i.	Dynamic Black-Box Testing Definition		2
	ii.	Test-to-pass	1.5 marks	3
		Test-to-fail	1.5 marks	
	iii.	Static Black-Box Definition	2 marks	5
		Perform High-Level Review	3 marks	
OR	iv.	Equivalence Partitioning and boundary condition testing Definition	2 marks	5
		Example	3 marks	

Q.3	i.	Difference between dynamic white-box testing and debugging Definition	3 marks	3
	ii.	Static white-box testing Definition	1 mark	7
		Formal Reviews	6 marks	
OR	iii.	Dynamic white-box testing definition	1 mark	7
		Code Coverage (any three) using suitable example	6 marks	
Q.4	i.	Definition Configuration Testing and Compatibility Testing		2
	ii.	Definition of Backward and Forward Compatibility Example	2 marks	3
			1 mark	
	iii.	Definition of Data Sharing Compatibility	2 marks	5
		Three examples	3 marks	
OR	iv.	Definition Usability Testing	2 marks	5
		Any three types of disabilities	3 marks	
Q.5	i.	Definition of Gray-Box Testing		2
	ii.	Three ways good documentation contribute to the product's overall quality		3
	iii.	Name of three basic elements	2 marks	5
		testing of each element	3 marks	
OR	iv.	Any five areas	1 mark for each area	5
Q.6	i.	Definition of Beta Testing		2
	ii.	Any three benefits of using software test tools and automation		3
		1 mark for each	(1 mark *3)	
	iii.	Definition of bug-tracking system	2 marks	5
		Two reasons	3 marks	
OR	iv.	Basic states of a software bug's	3 marks	5
		Additional states	1 mark	
		Diagram	1 mark	
