Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment No.....



Duration: 3 Hrs.

Faculty of Science / Engineering End Sem Examination Dec-2023

CA3SE07 Software Testing

Programme: BCA / BCA - Branch/Specialisation: Computer MCA (Integrated) Application

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. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. Which thing is not include in "High-Level Review of the 1 Specification"?
 - (a) Pretend to be the customer
 - (b) Review specification terminology checklist
 - (c) Review and test similar software
 - (d) Research existing standards and guidelines
 - ii. "Push the software to its limit and checkthe bugs that occur when the 1 software is operated under extreme conditions"-

Purpose of this dynamic testing technique's main focus is to?

- (a) Test to pass
- (b) Test to fail
- (c) Data testing
- (d) State testing
- iii. Which one is not a essential elements of formal review?
 - (a) Identify problems
- (b) Follow rules
- (c) criticize the developer
- (d) Write a report
- iv. Which one of the following subsumption relations is incorrect?
 - (a) Multiple condition coverage subsumes decision coverage
 - (b) Basic condition coverage subsumes decision coverage
 - (c) Basic condition coverage subsumes statement coverage
 - (d) Modified Condition/ Decision Coverage (MC/DC) subsumes basic condition coverage
- v. The most appropriate level for compatibility testing is-
 - (a) Unit/component
- (b) Integration

(c) System

(d) Server

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	vi.	testing is a technique for ensuring that the intended users of a				
		system can carry out the intended tasks efficiently.				
	effectively and satisfactorily.					
		(a) Configuration testing	(b) Usability testing			
		(c) Compatibility testing	(d) Foreign-language testing			
	vii. During documentation testing, which type of software documentation					
		not considered?				
		(a) Packaging text and graphics				
		(b) Marketing material, ads, and other inserts				
		(c) Software Requirements Specification (SRS)				
		(d) Warranty/registration				
viii. What are Three D's of vandalize motives of hackers?				1		
		(a) Disturb, Destruction, and Denial	of Service			
		(b) Defacing, Destruction, and Denial of Service				
		(c) Disturb, Debugging, and Denial of Service				
		(d) Defacing, Dirty, and Denial of Se	ervice			
	ix.	Which of the following statement are	e correct?	1		
		I. Stubs are used in bottom-up app				
		II. Stubs are used in Top-down appIII. Drivers are used in bottom-up at				
		IV. Drivers are used in Top-down a				
		(a) I, III (b) I, IV	(c) II, III (d) II, IV			
	х.	Which one is not a field of test case s	specification?	1		
		(a) Identifiers	(b) Input specification			
		(c) Output specification	(d) Actual output			
Q.2	i.	Explain the concept of V&V in test	ing.	4		
	ii.	What is the utility of black-box and white-box testing? Explain high-				
		level review of the specification in de	etail.			
OR	iii.	What is dynamic black-box testing?	Differentiate between equivalence	6		
		partitioning and boundary condition	testing with example.			
Q.3	i.	What do you mean by stub and dri	•	4		
		driver in unit and integration testing.				
	ii.	Explain any six types of coverage-ba		6		
OR	iii.					
		and inspections in detail.				

- Q.4 i. What is usability testing? How different types of disabilities could 4 affect software usability?
 - ii. Write the importance of compatibility testing. Explain the example of **6** backward and forward compatibility.
- OR iii. What do you mean by configuration testing? Explain step by step 6 approach for configuration testing.
- Q.5 i. What is buffer overrun/ overflow? Why it is important in security 4 testing?
 - ii. What is black box testing of a website? What basic elements of a web 6 page can easily be tested with a black-box approach?
- OR iii. What is documentation testing? In what three ways does good **6** documentation contribute to the product's overall quality?
- Q.6 i. What is random testing? Differentiate between monkeys and gorillas 4 testing.
 - . Explain the bug's life cycle with suitable diagram.

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OR iii. What is the utility of test tool? Explain any four types of test tool with 6 example.

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Scheme of Marking

Software Testing (T) - CA3SE07 (T)

Q.1	i)	Which thing is not include in "High-Level Review of the	1
		Specification"	
		B. Review Specification Terminology Checklist	
	ii)	"Push the software to its limit and checkthe bugs that occur when	1
		the software is operated under extreme conditions"	
		Purpose of this dynamic testing technique's main focus is to?	
		B. Test to fail	
	iii)	Which one is not a essential elements of formal review?	1
		C. criticize the developer	_
	iv)	Which one of the following subsumption relations is incorrect?	1
		B. Basic condition coverage subsumes decision coverage	
	v)	The most appropriate level for compatibility Testing is	1
	•	C. system	
	vi)	testing is a technique for ensuring that the intended users of	1
		a system can carry out the intended tasks efficiently,	
		effectively and satisfactorily.	
	::)	B. Usability testing	1
	vii)	During Documentation Testing, Which type of Software Documentation is not considered	1
		C. Software Requirements Specification (SRS)	
	viii)	What are Three D's of vandalize motives of hackers	1
	VIII)	B. Defacing, Destruction, and Denial of Service	1
	ix)	Which of the following statement are correct? 1. Stubs are used in	1
	121)	bottom-up approach. 2. Stubs are used in Top-down	1
		approach. 3. Drivers are used in bottom-up approach. 4. Drivers are	
		used in Top-down approach.	
		C. 2,3	
		5. -),	
	x)	Which one is not a field of test case specification?	1
	,	D. Actual Output	-
		•	
Q.2	i.	Verification- 2 Marks	4
		Validation- 2 Marks	
	ii.	Utility - 2 Marks	6
		High-Level Review - 4 Marks	v
OR	iii.	_	6
OK	111.	Dynamic Black-Box - 1 Marks	U
		Equivalence Partitioning -2.5 Marks	

Boundary Condition -2.5 Marks

Q.3	i.	Definition- 1 marks	4
		Role- 3 Marks	
	ii.	1 marks for each Coverage-based Testing.	6
OR	iii.	Definition- 1 marks	6
		Formal Reviews- 1 Marks	
		Walkthroughs and -2 Marks	
		Inspections – 2 Marks	
Q.4	i.	Usability Definition- 1 marks	4
		types of disabilities could affect software usability- 3 marks	
	ii.	importance of compatibility testing- 2 marks	6
		Backward compatibility 2 marks	
		Forward compatibility 2 marks	
OR	iii.	configuration testing definition- 2	6
		Approach for configuration testing- 4 marks	
Q.5	i.	What is Buffer Overrun/ Overflow- 2 marks	4
		important in Security Testing- 2 marks	
	ii.	What is black box testing of a website- 2 marks	6
		For four basic elements – 4 marks	
OR	iii.	Definition of Documentation Testing - 2 marks	6
		three ways – 4 Marks	
Q.6	i.	Random Testing - 1 marks	4
		Monkeys and Gorillas Testing- 3 marks	
	ii.	Bug's Life Cycle – 4 marks	6
		diagram: 2 Marks	
OR	iii.	Utility of test tool: 2 Marks	6
		four types of test tool with example: – 4 Marks	

P.T.O.