P P SAVANI UNIVERSITY

Sixth Semester of B. Tech. Examination May 2022

SECE3541 Software Testing & Quality Assurance

31.05.2022, Tuesday Time: 09:00 a.m. To 11:30 a.m.

Maximum Marks: 60

Inci	tru	ctio	onc.

- 1. The question paper comprises of two sections.
- 2. Section I and II must be attempted in same answer sheet.
- 3. Make suitable assumptions and draw neat figures wherever required.
- 4. Use of scientific calculator is allowed.

	SECTION - I		
Q-1	Answer the Following (Any Five)	[05]	
(i)	One of the fields on a form contains a text box that accepts numeric values in the range of		
	18 to 25. Identify the invalid Equivalence class.		
(ii)	Define: Acceptance Testing		
(iii)	What is Stress Testing?		
(iv)	Is White Box Testing Called As Glass Box Testing? Justify your answer.		
(v)	Which of the following testing is also known as white-box testing?		
	a) Structural testing		
	b) Error guessing technique		
	c) Design based testing		
	d) None of the above		
(vi)	In which environment we can performed the Beta testing?		
	a) User's and developer's end		
	b) Developer's end		
	c) User's end		
	d) None of the above		
(vii) •	What is error guessing?	40	
Q - 2 (a)	Explain Software Testing Life Cycle in detail.	[05]	
Q-2(b)	Differentiate Black Box Testing and White Box Testing.	[05]	
0.263	OR .		
Q - 2 (a)	Explain the process of testing object-oriented development.	[05]	
Q - 2 (b)	Describe Verification and Validation process.	[05]	
Q - 3 (a)	What is Integration Testing? List out and explain approaches of an Integration Testing.	[05]	
Q-3(b)	Enlist coverage in test designing. Explain any two in detail.	[05]	
0.2(-)	OR .		
Q - 3 (a)	Write down test cases for input boxes accepting numbers between 1 and 1000 using	[05]	
0.2(b)	Equivalence Partitioning.	FORT	
Q-3 (b)	What is White Box Testing? What are the advantages and disadvantages of white box	[05]	
Q-4	testing? Attempt any one.	[05]	
(i)		[05]	
(ii)	Enlist Black Box Testing methods. Explain Decision Table Testing in detail. Describe Path Testing in detail.		
(11)			
Q-1	SECTION - II Answer the Following: (Any Five)	[05]	
(i)	Define: Test Data	[05]	
(ii)	What is the development plan?		
(iii)	Enlist any 5 testing tools.		
(iv)	Define Test Case.		
(1,4)	bettile rest case.		

(v)	What is Risk analysis?		
(vi)	What does test plan consists of?		
(vii)	What is difference between defect and bug?		
Q-2(a)	What are open-source testing tools? Explain advantages and disadvantages of using testing		
	tools.		
Q-2(b)	What are guidelines for selecting a testing tool?	[05]	
	OR		
Q-2(a)	What are skills of tester?	[05]	
Q-2(b)	What is quality plan? Explain in detail.	[05]	
Q-3(a)	Explain Defect Classification in detail.	[05]	
Q-3(b)	Explain defect life cycle in detail.	[05]	
	OR		
Q-3(a)	Explain Defect Management Process with suitable diagram.		
Q-3(b)	What is test reporting?	[05]	
Q-4	Attempt any one.	[05]	
(i)	Risk Analysis.		
(ii)	Test Plan.		