ST

Q.P. Code:01767

			[Time: $2\frac{1}{2}$ Hours]	[Marks:/5]
		N.B: 1. 2. 3. 4. 5.	Make <u>suitable assumptions</u> wherever necessary and <u>state the assumptions</u> may have to the <u>same question</u> must be <u>written together</u> . Numbers to the <u>right</u> indicate <u>marks</u> . Draw <u>neat labeled diagrams</u> wherever <u>necessary</u> .	
2.1		Attempt any two	of the following:	(10)
	a.	Define Software Te	esting. Why is it necessary?	
	b.	Explain the softwa	re testing principles.	
	c.	Compare and cont	rast the mindset of a tester and that of a developer.	
	d.	What is quality? D	iscuss the correlation between testing and quality.	
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Q.2	2	Attempt any two	of the following:	
	a	Explain V-model.		
	b.	Explain the differe	ent test levels.	
	c.	Describe the purp	ose of confirmation testing and regression testing.	
	d.	Write a short note	e on maintenance testing.	
Q.	3 a.	Explain the differen	of the following: ence between static and dynamic techniques. es for successful performance of reviews.	(10)
	b.	Explain the factor	ective of static and list typical benefits of static analysis.	
	c.	Describe the obje	ortance and value of considering static techniques for the assessment of software	
	d.	Describe the impo work products.	ortance and value of considering static teems,	(10)
Q	. 4 a.	Attempt any two Explain the chara	of the following: acteristics of specification-based testing, structure-based testing and experience-	, (10)
		based testing.		
	b.	Explain boundary	y value analysis with help of an example.	
	c.	Write short note	on experienced based techniques.	
	d.	Define the conce	ept and importance of code coverage.	

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Q.5		Attempt any two of the following:	(10
	a.	Discuss the importance of independent testing.	
	b.	Discuss the IEEE 829 standard Test Plan template.	
	c.	Explain briefly the major types of test strategies that are commonly used.	
	d.	Define the following: defect density, failure rate, test control, test coverage, test monitoring.	
Q.	6	Attempt any two of the following:	(10)
	a.	Classify different types of tests according to the process activates.	(10)
	b.	Summarize the potential benefits and risks of test automation and tool support for testing.	
	c.	State the main principles of introducing a tool into an organization.	
	d.	Define the following: debugging tool, driver, probe effect, data-driven testing, keyword-driven	
*		testing.	
Q.7		Attempt any three of the following:	(15)
	a.	Explain briefly the fundamental test process.	(13)
	b.	Define COTS, verification, validation, stub and drivers.	
	C.	Define the following: entry criteria, exit criteria, moderator, reviewer, scribe.	
	d.	List the factors that influence the selection of the appropriate test design technique.	*
	e.	Write a short note on test monitoring.	
	f.	State the goals of a proof of concept or piloting phase for tool evaluation.	