QP Code: 361100

			(3 Hours)		
N	N.B.:	(1)	All questions are compulsory.		
		(2)	Make suitable assumptions wherever necessary and state the assumptions		
		` '	made.		
		(3)	Answer to the <b>same question</b> must be <b>written together</b> .		
		(4)	Numbers to the right indicate marks.		
		(5)	Draw neat labelled diagrams wherever necessary.		
		(6)	Use of Non-programmable calculators is allowed.		
1.	Atte	mpt a	any <b>two</b> of the following:	10	
		(a)	Explain the BIG BANG approach of testing.		
		(b)	Explain brainstorming process.		
		(c)	How to write good test case?		
		(d)	What are the characteristics of good requirements?		
2.	Atte	mpt a	any three of the following:—	15	
		(a)	Define quality. Discuss the customer's view of quality.		
		(b)	Differentiate between 'Q' organisation and 'q' organisation.		
		(c)	Describe any one software development model in detail.		
		(d)	What are the principles of software testing? Discuss.		
		(e)	Define testing. Why testing is necessary?		
		(f)	Explain VV model for testing with diagram.		
3.	Attempt any three of the following:—				
	36	(a)	What is boundary value testing? List all the limitations of boundary value testing.		
	200	(b)	Explain the concept of equivalence class testing with an example.		
5		(c)	What is decision table based testing. Where it can be used and list the components		
305			of decision based testing.		
		(d)	Differentiate between strong equivalence class testing and weak equivalence class		
		300	testing.		
		(e)	Discuss the advantages and disadvantages of decision table based testing.		
		(f)	Write the guidelines for boundary value testing.		
4.	Attempt any three of the following :—				
		(a)	What are the coverage criteria? Explain the testing process of data flow.		
		(b)	Discuss the Data Flow anlysis anomalies.		
		(c)	Explain the concept of program graph with an example.		
	3000	(d)	Describe metric based testing.		
	A. 79	(e)	Discuss the fou steps method devised by McCabe to carry out basis path testing.		
	20 0 V	(f)	Write a short note on LOOP Coverage.		
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5.	Attempt any three of the following:—				
	(a)	What are the levels of testing? Explain.			
	(b)	What is integration testing? List all the integation testing strategies. Explain any	1 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		
		one.	22		
	(c)	List all advantages and disadvantages of call graph integration testing.			
	(d)	Briefly explain the concept of system testing.			
	(e)	Define the tem 'Interaction'. Discuss Taxonomy o interactions.			
	(f)	Define Theads. What are the distinct levels of threads?			
6.	Attempt any <b>three</b> of the following :—				
	(a)	Explain Object oriented testing.			
	(b)	Discuss the relationship between collaboration diagrams and sequence diagrams.			
	(c)	How object oriented integration testing is different from object oriented testing.			
	(d)	Discuss the implications of composition and encapsulation.			
	(e)	Write a short note on class testing.			
	(f)	What is UML based system testing? Explain.			
7.	Attempt any <b>three</b> of the following :—				
	(a)	Define Test Policy. Explain the general content of Test Policy.			
	(b)	What is Test Plan? What are the benefits of Test Plan.			
	(c)	Describe the purpose of Test Reports.			
	(d)	Explain benchmarking concept. Why it is requied?			
	(e)	Differentiate between qualitative data and quantitative data.			
	<b>(f)</b> a	Explain the concept of checklist.			