Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

ADAG CAMEME

USN			15IS63	
Sixth Semester B.E. Degree Examination, Dec.2018/Jan.2019				
Software Testing				
Tim	ie: .	3 hrs. Max. M	Iarks: 80	
Note: Answer any FIVE full questions, choosing ONE full question from each module.				
1	a.	Module-1 Define Software quality. Explain the different measures of software quality.	(06 Marks)	
		Explain the perspective testing definitions of the following: i) Errors ii) I		
		iii) Failure iv) Incident v) Test vi) Test case.		
	c.	Draw the flow diagram of a testing life cycle. Consider the following:	(08 Marks)	
		Requirement 1: It is required to write a program that inputs two integers and outputs the		
		maximum of these.	/02.75 · · ·	
		Comment on its completeness.	(02 Marks)	
		ÓR		
2	a.	With the help of a test and debug cycle diagram, explain testing and debugging pro-	rocess. (08 Marks)	
	b.	Write pseudo-code for NextDate problem (simple version).	(04 Marks)	
	C.	Explain the elements walk through and inspection of static testing.	(04 Marks)	
Module-2				
3	a.	With example, explain about boundary value analysis and mention its limitations.		
	b.	Write Equivalence class test cases for the commission problem.	(04 Marks) (06 Marks)	
	C.	Explain the fault – based adequacy criteria.	(06 Marks)	
		OR		
4	a.	Explain test cases for the triangle problem with respect to decision table based test	sting.	
	h		(08 Marks)	
	b.	With a neat diagram, explain about i) Robustness testing ii) Worst case testi	ng. (04 Marks)	
	c.	Explain Mutation analysis terminologies.	(04 Marks)	
	Module-3			
5	a.	Explain about du – path test coverage metrices with dataflow diagram.	(08 Marks)	
	b.	Explain in brief about : Scaffolding and Test Oracles.	(08 Marks)	
		OR		
6	a.	Explain McCabe's basis Path method.	(08 Marks)	
	b.	Explain about slice based testing in a dataflow testing by taking commission prob	lem. (08 Marks)	
(UO IVIAIRS)				
7	2	Module-4 Explain the following:		
/	a.	i) Sensitivity ii) Redundancy iii) Visibility iv) Partition.	(08 Marks)	
	b.	Briefly explain test design specification documents.	(08 Marks)	

OR

8 a. Discuss the dependability properties. (08 Marks)
b. List and explain the different types of Risk planning. (08 Marks)

Module-5

9 a. Explain about client / server testing with respect to interacting testing.
b. Explain about decomposition based integration with respect to integration testing. (08 Marks)

OR

10

a. Compare System, Acceptance and Regression testing. (08 Marks)
 b. Draw the display screens of both Simple Automatic Teller Machine (SATM) terminal and built with fifteen screens for the SATM system. (08 Marks)