Sixth Semester B.E. Degree Examination, June/July 2016 **Software Testing**

Time: 3 hrs. Max. Marks:100

> Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

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		PART – A	VO:
1	a.	What is software testing? Why it is so important in software development life cycl	e? (06 Marks)
	b. c.	Define the following: i) Error ii) fault iii) failure iv) incident v) test vi) test case. Explain with a neat diagram the currency converter and Saturn wind shield wiper of	(06 Marks)
2	a.	Justify the usage of boundary value analysis with function of two variables and highinitations of BVA.	ghlight the (08 Marks)
	b.	Briefly explain weak normal and strong robust equivalence class testing with ar	example. (08 Marks)
	c.	Write a short note on random testing.	(04 Marks)
3	a.	What is cyclomatic complexity? Explain how to calculate cyclomatic complexity program by considering the biggest of three number logic.	(08 Marks)
	b. c.	Explain slice —based testing guidelines and observations in detail. Write a short note on define/use testing.	(08 Marks) (04 Marks)
4	a.	With a neat diagram explain the waterfall life cycle and clearly show partial decomposition of the ATM system.	functional (08 Marks)
	b. c.	List and explain pros and cons of the water fall model. With supporting diagrams and examples explain top-down and bottom-up integrat.	ion. (08 Marks)
7		PART – B	
5	a. b.	Explain the basis concept for requirements specification. Explain with supporting diagram the client server testing.	(12 Marks) (08 Marks)
6	a.	Define validation. With a neat sketch explain the relation of verification and activities with respect to artifacts produced in a software development project.	validation (10 Marks)
	b. c.	Explain sensitivity and redundancy. Define the terms reliability and availability.	(06 Marks) (04 Marks)
7	a.	Distinguish between: i) Competent programmer hypothesis and coupling effect hypothesis	
	1.	ii) Distinguished mutant and equivalent mutant.	(04 Marks)
	b. c.	Explain the fault-based adequacy criteria. What is scaffolding? Explain briefly generic versus specific scaffolding.	(08 Marks) (08 Marks)
8		Write short notes on:	

(06 Marks) Clean room process. Different types of risks specific to the quality process. (06 Marks) A standard organization of an analysis and test plan. (08 Marks)

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