## USN

## Sixth Semester B.E. Degree Examination, Dec.2016/Jan.2017 **Software Testing**

Max. Marks: 100 Time: 3 hrs.

> Note: Answer FIVE full questions, selecting at least TWO questions from each part.

## PART - A

	A A A A A A A A A A A A A A A A A A A			
1	a. b.	What are Test cases? Explain approaches used to identify test cases.  Explain:	(06 Marks)	
		i) Currency converter	(00 Morks)	
	_	ii) Saturn wind shield wiper controller.	(08 Marks)	
	c.	Briefly explain testing using Venn Diagram.	(06 Marks)	
2	a.	Explain Decision table testing and generate test cases for triangle problem usi	ng decision	
		table.	(08 Marks)	
	b.	Develops test cases for commission problem using Boundary value testing.	(06 Marks)	
	c.	Give the Guidelines and observations for equivalence class testing.	(06 Marks)	
2		Explain in detail Basis path testing with respect to triangle problem.	(10 Marks)	
3	a. b.	Define def/use pair and identify def/use paths for commission problem.	(10 Marks)	
	υ.	Define debuse pair and identify debuse paths for commission prostom	,	
4	a.	Explain why it is essential to separate integration and system testing.	(08 Marks)	
4	a. b.	Define MM path graph. Draw MM paths in SATM system.	(12 Marks)	
	υ.	Define with pain graph. Draw with pains in street systems		
PART - B				
5	a.	Briefly explain process of generating system level SATM test Threads.	(10 Marks)	
J	a. b.	Explain four basic types of interactions.	(10 Marks)	
	υ.	Explain four basic types of interactions.		
6	a.	Explain validation and verification.	(06 Marks)	
U	a. b.	Explain: i) Visibility ii) Feedback iii) Dependability		
	υ.	iv) MTBF v) Availability.	(10 Marks)	
	0	Write a short note on Software quality goals.	(04 Marks)	
	c.	Write a short note on bottware quanty goals.		
7	a.	What is fault based testing? What are assumptions in fault base testing?	(06 Marks)	
′	b.	Explain: i) scaffolding ii) Test oracles		
	υ.	iii) Capture and Replay iv) Test case specification.	(10 Marks)	
		Write a note on mock.	(04 Marks)	
	c.	WILL a HOLE OH HOUR.	,	
8	0	Briefly explain test and Analysis strategies.	(10 Marks)	
ð	a.	Explain root cause analysis technique for improving the process.	(10 Marks)	
	b.	Explain foot cause analysis teening to improving the provision	,	