P.E.S. College of Engineering, Mandya - 571 401 (An Autonomous Institution affiliated to VTU, Belagavi) Fifth Semester, B.E Information Science and Engineering Semester End Examination; Dec - 2017/Jan - 2018					
Time: 3 hrs	Software Testing	lax. M	arks	· 100	

	UNIT - I		
1 a.	. Differentiate between testing and debugging.		
b.	Explain static testing.		
c.	Explain the software quality attributes.	10	
2 a.	Explain different types of test metrics.	10	
b.	Explain test process models.	10	
	UNIT - II		
3 a.	Explain the systematic procedure for equivalence partitioning.	10	
b.	b. Explain boundary value analysis by taking an example.		
4 a.	a. Explain the steps in the category-partition method.		
b.	What are the predicate-testing criteria? Explain.	10	
	UNIT - III		
5 a.	Explain the following :	10	
	i) Procedure call testing ii) Path testing.	10	
b.	b. Explain condition testing and branch testing with examples.		
6 a.	a. Explain data flow testing and data flow testing criteria.		
b.	Explain data flow analysis with arrays and pointers.	10	
	UNIT - IV		
7 a.	. What is scaffolding? Discuss generic and specific scaffolding.		
b.	Define the following :		
	i) Test case ii) Test case specification iii) Test obligation	10	
	iv) Test suite v) Test execution.		
8 a.	Explain the oracles with neat diagram.		
b.	Explain adequacy criteria.	10	
	UNIT - V		
9 a.	Discuss regression testing and acceptance testing.	10	
b.	Define the following :	10	
	i) Component ii) Framework iii) Component based system iv) COTs.	-	
10 a.	Write a note on the following :	20	
	i) Unit test ii) System test iii) Quality process iv) Risk planning.		