BE/Sem VIII/CBSGS/IT/ST/N.D-17

Q. P. Code: 13497

Total Marks 80

Time 3 hours

Question 1 is compulsory Attempt any 3 questions from the remaining.

Q1
a. What is measuring effectiveness of prioritized test suites? Consider a program with 5 faults and a test suite of 5 test cases, as shown in table below:

	T1	T2	T3	T4	T5
F1			X		X
F2		X	X	X	
F3	X				X
F4		100	X	X	X
F5	X	1 37 37		X	

Calculate APFD for this program.

b	Explain STLC in detail	10
Q2 a	What is bug? Explain Life Cycle of Bug and different states of bug	10
b	Explain different regression testing types	10
Q3 a	Explain test design preparedness metrics	10
b	Consider a project with the following distribution of data and calculate its defect spoilage:	10

SDLC phase	No. of Defects	Defect age	
Requirement	34	2	
HLD	25	4	
LLD	17	5	
Coding	10	6	

a Differentiate between

10

- i. White box and Black box testing
- ii. Verification and Validation

Turn Over

b	A program reads an integer number within the range [0,200] and determines whether it is an even number or not. Design test cases for this program using BVC, robust and worst case testing methods.			
Q5				
a	Explain with example class testing	10		
b	Explain security testing in web based application	10		
Q6				
a	What is Test Point Analysis	10		
b	Explain ISO 9126 quality characteristics	10		
		2		
		56		
111				