Ty 8867 (3) / Software tests) 60

Q.P. Code: 23208

(Time: $2\frac{1}{2}$ hours)

Total Marks: 75

		10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	000
	N. B.:	(1) All questions are compulsory.	
		(2) Make <u>suitable assumptions</u> wherever necessary and <u>state the assumptions</u> made.	
		(3) Answers to the same question must be written together.	
		(4) Numbers to the <u>right</u> indicate <u>marks</u> .	
		(5) Draw <u>neat labeled diagrams</u> wherever <u>necessary</u> .	
		(6) Use of Non-programmable calculators is allowed.	170
			7
1.	Atte	empt <u>any two</u> of the following:	10
a.		ine Software Testing. What are the viewpoints of Quality and how they are fulfilled by	
		ing?	(V)
b.		lain the fundamental principles in testing	X
c.		ne the following: test basis, test case, exit criteria, test condition and testware.	
d.	Wh	at is the main reason for poor relationships between the test team and developers? How	
200	it ca	in be tackled?	
2.	Atte	empt <u>any two</u> of the following:	10
a.		ain V Model in detail.	10
b.		cuss Impact analysis and regression testing with respect to Maintenance testing.	
C.	Defi	ne the following: Verification, Validation, Stubs, Drivers and Beta Testing.	
d.	Wha	at are the different levels of testing? Explain the testing level that is concerned with the	
	beh	avior of the whole system/product as defined by the scope of a development project or	
	prod	duct.	
3.	Atte	empt <u>any two</u> of the following:	10
a.		ain the phases of a Formal review.	10
b.		e a short note on Static Analysis by tools.	
c.		ne the following: entry criteria, scribe, cyclomatic complexity, data flow and control flow.	
d.	Defi	ne Static Testing. What is its significance? List the software work products that can be	
	exar	nined by different static techniques.	
4.	Atte	mpt <u>any two</u> of the following:	40
a.	Desc	cribe the concept and importance of code coverage with help of an example.	10
b.	Expl	ain the technique in which the test cases are based on intuition, experience and	4%
	knov	wledge about common defects.	
c.		ne the following: test cases, test condition, test data, test script and traceability.	
d.	A we	ebsite shopping basket starts out as empty. As purchases are selected, they are added to	
100	the	shopping basket drems can also be removed from the above the selected.	
789	CLIST	shopping basket. Items can also be removed from the shopping basket. When the	
	show	omer decides to check out, a summary of the items in the basket and the total cost are	
	31.00	vn, for the customer to say whether this is OK or not. If the contents and price are OK,	

[TURN OVER]

then you leave the summary display and go to the payment system. Otherwise you go back

Produce a state diagram showing the different states and transitions. Define a test, in

to shopping (so you can remove items if you want).

Produce a state table.

terms of the sequence of states, to cover all transitions.

Q.P. Code : 23208

		(3)
5.	Attempt <u>any two</u> of the following:	10
a.	Write a short note on Test monitoring.	
b.	What is Product Risk and Project Risk? For any risk, product or project, discuss the four typical options to handle them.	
C.	Define the following: test control, test coverage, test monitoring, configuration management and version control.	
d.	"Incident reports move through a series of clearly identified states after being reported.", Discuss these states in the sequence of their occurrence.	
6.	Attempt <u>any two</u> of the following:	10
a.	What are the potential benefits and risks of using tools.	
b.	Explain Test comparators.	
C.	Define the following: debugging tool, data-driven script, keyword-driven script, screen scraper and web spider.	
d.	Discuss the features provided by test management tools.	87
7.	Attempt <u>any three</u> of the following:	15
a.	List all the activities within the fundamental test process. Explain any one activity in detail.	10
b.	Explain the four software test types.	
c.	State and explain briefly types of review.	
d.	Explain Decision table testing with help of an example	
e.	Discuss the factors to be considered in taking decisions regarding 'entry criteria' and 'exit criteria.'	
f.	Write a short note on pilot tool project.	