## COMP 5/6710 Software Quality Assurance Test 1 – February 20, 2015

Tota	al: 100 points	Name:
1.	The major activities in software maintenance can be class corrective, perfective (or enhancement), adaptive, and pra. Describe the purpose of each activity. (12) b. Among these activities, which one normally happens	sified into four categories: reventive.
	<ul><li>a. Define software failure and software fault. (5)</li><li>b. Why is it possible that some faults would cause more for the c. What is the Pareto Principle? (5)</li><li>d. How would Pareto Principle impact testing? (5)</li></ul>	failures than others? (5)

3.	In general, how are informal and formal reviews defined? Or, how can we distinguish informal reviews from formal reviews? (10)
4.	What is a software baseline? (5) What does it consist of? (5) What purposes does it serve? (5)
5.	Peer review/software inspection has been known to be the most effective way to detect faults for a long time.  a. In a rough number, what percentage of software organizations/companies would do review or inspection? (5)  b. Why most software organizations would not do it? (5)

	a.	Black box testing
	b.	White box testing
	c.	Static testing
	d.	Dynamic testing
7.	A p	ortion of our ATM machine requirements is given below:
	•••	Among many functions, the ATM should be able to do withdraw, deposit, transfer,
	inq	uiry, and currency exchange. The allowed withdraw range is somewhere between
	\$40	0 and \$450, and the withdraw amount must be multiples of \$20. It is very
	imį	portant to have an easy-to-use, modern, and effective user interface. In case of
	uni	usual usage, the machine should lock down itself and stop delivering any cash
	req	int out (by <b>circling the words</b> ) and <b>explain</b> potential problems for this portion of quirements. Also, <b>suggest</b> how the problems can be resolved, e.g., using different ords, eliminating or adding words. (18)

6. Define the following terms: (12)