King Abdulaziz University PHYSICS 202: BA	Faculty of Science 2010-2011	Department of Physics Quiz#3
Name:		Number:
Solve These Questions		
Question 1		
A Parallel-plate capacitor of plate area 2 m ² and separation of 1.77 mm is connected to a potential difference of 6 V. A glass of dielectric constant κ =4.5 is inserted between the plates. Calculate (i) the new capacitance of the capacitor and (ii) the amount of charge stored in the capacitor.		
Question 2		
As shown in the figure (C1= C3=9 μ C5 capacitor.		F), calculate the voltage across the
	$- C_{3} C_{4}$ $- C_{4}$	C5