ICS 324: Database Systems (072)		Section: 02
Date: 10 th May2008	Quiz #4	Time: 15 Minutes
Name:		ID#:
Question 1:		(4 Points)
a) Briefly describe the problem	n of spurious tuples and how we may	prevent it. (2 points)
b) Briefly explain the concept	of "Functional dependency" and whe	re it is used. (2 points)
Question 2:		(6 Points)
Consider the following Students r	elation with the functional Dependen	cies F:
STUDENT (<u>ID</u> , Name, Dept_	_Name, Dept_Phone, Advisor_Name	, Advisor_Office, Advisor_Phone)
$\mathbf{F} = \{ \text{Advisor_Name} \rightarrow \{ \text{Adv} \} \}$	isor_Office, Advisor_Phone}; Dept_	$Name \rightarrow Dept_Phone \}$
a) In what normal form is this	relation and why?	(2 points)
b) Further normalize the relation	on to BCNF, if needed.	(4 points)