MSE 2001B Quiz #3, 9-4-2015

Your name (print)	Your major _	Score	/10
Please ONLY use the space of each question to provide your answer. You will have 10 minutes to work on this quiz. Please sign to confirm that all work on this test is yours and yours only. Signature			
1. Draw the <i>unit cell of graphene</i> . How many <i>carbon atoms</i> are there in the unit cell of graphene? (4 pts)			
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	5	# of car	bons
		2	(+2pt)
2. Given that the ionic radii of Na ion (Na ⁺) and chloride ion (Cl ⁻) are 0.116 nm and 0.181 nm, respectively.			
2.1) What is the <i>crystal structure</i> of NaCl? (2 pts)			
Fcc	or	ctose cab	structure ccp
2.3) How many <i>vacant</i> tetrahedral and octahedral holes are available in one unit cell of NaCl? (2 pts) 8			