## Quiz 4

Name:		Date:	I participated today:
1.	What size matrix is required to fully $n$ -qubit system?	/ describe the transforn	nation a quantum operation has on an
2.		•	the target and which is the control? In at $CZ(\psi_1,\psi_2)$ does not produce the
3.	implement any possible Boolean fu	inction. For example, th	complete if its members can be used to sets $\{AND, NOT\}$ and $\{NAND\}$ are complete set of quantum logic gates?
4.	In the superdense coding protocol, single qubit. How is this possible?	the sender seems to er	ncode two bits of information into a