Definition: $\mathsf{Enc\text{-}Forge}_{\mathcal{A},\Pi}(n)$: Run $\mathsf{Gen}(1^n)$ to obtain k. Adversary $\mathcal{A}$ is given input 1^n and access to an encryption oracle $\mathsf{Enc}_k(\cdot)$. They output ciphertext c. Let $m := \mathsf{Dec}_k(c)$, and let Q denote the set of all queries that $\mathcal{A}$ asked its encryption oracle. The output of the experiment is 1 iff $m \neq \perp$ and $m \notin Q$.

Definition: Unforgeable: A private-key encryption scheme Π such that for all PPT adversaries $\mathcal{A}$, $\Pr[\mathsf{Enc\text{-}Forge}_{\mathcal{A},\Pi}(n) = 1] \leq \mathtt{negl}(n)$.

Definition: Authenticated: A private-key encryption scheme that is CCA-secure and unforgeable.