Q4: First we take note that $\mu(\cup_{i=1}^{\infty} E_n) \leq \sum_{i=1}^{\infty} E_i < \infty$ and clearly this implies that $\mu(E_1) < \infty$. Using insight gleaned from Q3b about $\mu(\limsup_n E_n)$ we evaluate that:

$$\begin{aligned}
\mu(\limsup_n E_n) &= \mu(\bigcap_{k\geq 1} \bigcup_{n\geq k} E_n) \\
&= \lim_{k\to\infty} \mu(\bigcup_{n\geq k} E_n) && \text{(by measure continuity and assumption)} \\
&\leq \lim_{k\to\infty} \sum_{n=k}^{\infty} \mu(E_n) \\
&= 0 && \text{(since the sum converges, the tail must converge to 0)}
\end{aligned}$$