PART A : THEORY

a) BEGIN rule:

$$\frac{}{T,\ \Gamma \vdash \text{BEGIN}\ ()\ :\ \text{UNIT}}\ (\text{EMPTY BEGIN})$$

$$\frac{C,\ \Gamma \vdash e_1, \ldots, e_n : \tau_1, \ldots \tau_n}{C\ ,\ \Gamma \vdash \text{BEGIN}\ (e_1, \ldots, e_n) : \tau_n}\ (\text{BEGIN})$$

b) LAMBDA rule:

$$\frac{\begin{array}{c} 1 \leq i \leq n \qquad \alpha_i \text{ are fresh \& distinct} \\ C,\ \Gamma\{x_i \mapsto \alpha_i\} \vdash e : \tau \end{array}}{C,\ \Gamma \vdash \text{LAMBDA}(\langle x_1, \ldots x_n \rangle, e) : \alpha_1 \times \cdots \times \alpha_n \to \tau}\ (\text{LAMBDA})$$