$$u_{i} = \beta_{i} + \sum_{j=1}^{L} \beta_{j} \times_{j} c + \gamma_{i}$$
a)  $\beta_{i} = \gamma_{j} = \gamma_{i} = \beta_{i} + \gamma_{i} c + \gamma_{i}$ 

$$= \beta_{i} + \sum_{j=1}^{L} \beta_{j} \times_{j} c + \gamma_{i} c + \gamma$$