**PSQF 6271 Longitudinal MLM Formative Assessment #3**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Model Parameters:** | **Otherwise known as (list synonyms):** |  | **GLM:** |  | **For Multilevel Models: Time = 0,1,2,3** |
|  | Single-LevelEmpty Means Model |  | Empty Means, Random Intercept Model | Fixed Linear Time, Random Intercept Model | Random Linear Time Model |
|  |   |  |   |   |   |
|  | $y\_{i}=β\_{0}+e\_{i}$  |  | $$ y\_{ti}=β\_{0i}+e\_{ti}$$ |  $y\_{ti}=β\_{0i}+β\_{1i}(Time\_{ti})+e\_{ti}$ |  $y\_{ti}=β\_{0i}+β\_{1i}(Time\_{ti})+e\_{ti}$ |
|  |   |  | $$ β\_{0i}=γ\_{00}+U\_{0i}$$ | $$ β\_{0i}=γ\_{00}+U\_{0i}$$ | $$ β\_{0i}=γ\_{00}+U\_{0i}$$ |
|  |   |  |   | $$ β\_{1i}=γ\_{10}$$ | $$ β\_{1i}=γ\_{10}+U\_{1i}$$ |
|  |   |  |   |   |   |
| Terms that are **Fixed Effects**(and their interpretations in that model) |  |  |  |  |  |  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Terms that will have**Level-2 variances**(and their interpretations in that model) |  |  |  |  |  |  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Terms that will have **Level-1 variances**(and their interpretations in that model) |  |  |  |  |  |  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |   |