Longitudinal Structural Equation Modeling by Todd D. Little Chapter 10 Reading Questions

- 1. Which of these statements best describes the process of mediation?
 - A. A variable predicting another variable over time.
 - B. A variable exerting causal influence on another variable through another variable.
 - C. A variable predicting itself over time.
 - D. A variable predicts the magnitude of an association between one variable and another.
- 2. Which of these statements best describes the process of moderation?
 - A. A variable predicting another variable over time.
 - B. A variable exerting causal influence on another variable through another variable.
 - C. A variable predicting itself over time.
 - D. A variable predicts the magnitude of an association between one variable and another.
- 3. What is required to support a hypothesis of mediation?
 - A. At least the *a* or *b* path is significant.
 - B. Both the *a* and *b* path are significant.
 - C. The product of *a* and *b* is significant.
 - D. The *c*' path is no longer significant.
- 4. What term describes the assumption that all predictive paths from occasion to occasion are at the same magnitude between each of the measurement occasions?
 - A. Invariance
 - B. Heterogeneity
 - C. Tau equivalence
 - D. Stationarity
- 5. What is the recommended method for evaluating the significance of an indirect effect?
 - A. Evaluating if both the *a* and *b* paths are significant.
 - B. Evaluating the significance of the *ab* product through Monte Carlo simulation.
 - C. Evaluating the significance of the *ab* product through bootstrap estimation.
 - D. Both c and d.
 - E. None of the above.
- 6. What is needed to demonstrate moderation?

A. A significant interaction term.

- B. An interaction term stronger than a direct effect.
- C. At least 3 waves of data measuring the interaction.
- D. All of the above.
- 7. What term describes the effects of multiple predictors of an outcome?
 - A. Moderation
 - B. Mediation
 - C. Indirect effects
 - D. Additive effects

- 8. How can the collinearity of an interaction term be addressed?
 - A. Mean centering.
 - B. Orthogonalizing.
 - C. Modeling the collinearity.
 - D. All of the above.
- 9. When evaluating moderation relationships, how does one determine which variable is the moderating variable?
 - A. Theoretical considerations.
 - B. Strength of the associations.
 - C. Included in the model statement.
 - D. The order of variables in product term
- 10. How should model fit be assessed when evaluating moderation?
 - A. A nested χ^2 difference test.
 - B. Overall goodness of model fit.
 - C. Fitness should be evaluated before adding interaction term.
 - D. All of the above.