

1. Please explain the strategies for handling missing data in detailed, and list some methods in estimate missing values. 10%
2. Give the assumptions of multivariate analysis and describe how to test their assumptions are true. 10%
3. Sample size consideration, please give the minimal and preferable sample size for simple regression and multiple regressions, and recommend the ratio of observation to variable for minimal and preferable case. 10%
4. What are path analysis and its data assumption? 10%
Please list the differences between regression and path analysis (at least five facets) 10%
5. What's structural equation modeling (SEM)? Please list and explain SEM process from review literature to interpret results. 10%
6. Please read the partial contents, Table, and Figure (in Appendix) from the journal paper of Information & Management (2015):
 - (1) Please criticize the sample size problem based on the related literature. 10%
 - (2) Based on the related literature, and Table 6, please explain whether the model fit has been sufficient the demand, or some model fit indices is not satisfy the demand. 10%
 - (3) From Fig. 4, please interpret the results and all of relationships: interdependent, path-dependent, reciprocal, loop relations. 20%