

Psyc 201 Exam III Review Guide  
Fall 2005

This exam covers chapter 7 & 5 of the Cosby book and chapters 4, 5, & 10 from Schacht & Aspelmeier.

Be sure you are familiar with the following:

1. Survey/Self Report Methods and how they related to Internal Validity and the different types of External Validity (Generalizability, Mundane realism, Ecologica/Functional Realism, and Experimental Realism).
2. What are the strengths of Self Report measures?
3. What are the weaknesses of self-report measures?
4. Response deviation, Response acquiescence, Social desirability, Impression Management, Self-deceptive positivity.
5. Measurement Reliability - Test Retest, Internal Consistency, Cronbach's Alpha.
6. Measurement Validity - Content Validity, Representativeness, Relevance, Construct Validity, Convergent Validity, Divergent Validity.
7. Measures of Central Tendency Mean, Median, Mode - and how they are calculated.
8. Skewness and its relationship to central tendency
9. Measures of Variability - Range, Variance, & Standard Deviation for pops and samples and how they are calculated.
10. Pearson's  $r$
11.  $r^2$  and  $1 - r^2$  ; Coefficient of Determination
12. Covariance and Total Variance and their relationship to  $r$ .
13. Positive correlations and Negative correlations.
14. The null hypothesis and research hypothesis for  $r$ .
15. Table of critical values for  $r$ . The relationship between  $r$ , sample size ( $df$ ), and  $p$ .
16. Evaluate Effects Sizes for Pearson's  $r$ .
17. Sample size required for a given value of  $r$  to be found significant.
18. Estimate correlations from scatterplots.
19. Reach SPSS output for Pearson's  $r$
20. Calculate Mean, Median, & Mode by hand
21. Calculate variance and standard deviations by hand for samples and populations.
22. Compare a set of means and standard deviations for a two samples.
23. Compute  $r$ , test for significance, find the % variance accounted, interpret the effect size, and interpret the results.