



OBAFEMI AWOLOWO UNIVERSITY, ILE-IFE FACULTY OF EDUCATION DEPARTMENT OF EDUCATIONAL FOUNDATIONS AND COUNSELLING 201112012 M.A./M.ED. HARMATTAN EXAMINATION EFC 681: TEST THEORIES

TIME ALLOWED: 3 HOURS ANSWER ALL QUESTIONS

- 1. Represent the following facet designs with venn diagram and derive their generalizability coefficients.
 - I : P (3 marks)
 - *ii.* P x I x J (3 marks)
 - iii. P x (I : J) (3 marks)
 - *iv.* I x (J :P) (3 marks)
 - *v*. J : I : P (3 marks)

SERVER

- 2a. Identify and briefly discuss 5 validity sources of evidence. (10 marks)
- 2b. Evidence for construct-related validity can be obtained in quite a number of ways. Describe five of such ways. (10 marks)
- 2c. What are the four classes of validation that influence the tenability of theories and generalizability of findings from empirical research. (4 marks)
- 3a. Given that the observe score of a person selected from a population is

X = T + E, what are the four assumptions of Classical Test Theory? (8 marks)

3b. If $r_{xT}^2 = \underline{\sigma_T^2} = \underline{\sigma_T^2}$ $\sigma_x^2 = \underline{\sigma_T^2}$

derive the standard error of measurement formula (11 marks)

4. Describe the basic assumption of item response theory and their implications. (12 marks)



