PATCHAREE MEWAN : EFFECTS OF NUMBER OF ALTERNATIVES ON TEST INFORMATION FUNCTION OF MULTIPLE TRUE FALSE TEST AT DIFFERENT EDUCATION LEVELS. THESIS ADVISOR : ASSOC. PROF. PAUNGKAEW POONYAKANOK, 151 pp. ISBN 974-637-254-8

The purposes of this study were to compare the level of test information function (TIF) of multiple true false test (MTF) among three different number of alternatives : five, four and three alternatives, by using the three parameter logistic model. The test was constructed by the researcher. The content of the tests were the Life Experiences for grade 4 and Science for grade 9. The sample of 831 grade 4 students and 872 grade 9 students were randomly drawn from their populations in Lopburi province.
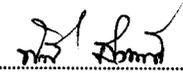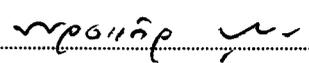
The results of study were :

1. At the low ability level ($\theta < -1.0$), MTF with 3 alternatives provided higher test information function than those of the MTF with 4 alternatives and 5 alternatives in Primary and Secondary Education Levels.

2. At the mediocre ability level ($1.0 \geq \theta \geq -1.0$), MTF with 4 alternatives provided higher test information function than those of the MTF with 5 alternatives and 3 alternatives in Primary and Secondary Education Levels.

3. At the high ability level ($\theta > 1.0$), MTF with 5 alternatives provided higher test information function than those of the MTF with 4 alternatives and 3 alternatives in Primary and Secondary Education Levels.

4. Test information function in Primary Education Level was higher than those of Secondary Education Level.

ภาควิชา วิจัยการศึกษา   ลายมือชื่อนิสิต

สาขาวิชา การวัดและประเมินผลการศึกษา   ลายมือชื่ออาจารย์ที่ปรึกษา

ปีการศึกษา 2540   ลายมือชื่ออาจารย์ที่ปรึกษาร่วม