

ABSTRAK

Rifka Annisa Girsang (NIM: 8176175014). Pengembangan Instrumen *Two-Tier Multiple Choice* (TTTMC) Untuk Mengukur *Higher Order Thinking Skills* (HOTS) Siswa SMA/MA pada Materi Momentum Dan Impuls. Tesis. Medan: Program Pascasarjana Universitas Negeri Medan, 2019.

Penelitian bertujuan mengembangkan tes *Two-tier Multiple Choice* (TTMC) untuk mengukur *Higher Order Thinking Skills* (HOTS) siswa pada materi Momentum dan Impuls yang memenuhi kualifikasi baik (tes standar) meliputi validitas, reliabilitas, tingkat kesukaran, daya pembeda dan efektivitas pengecoh. Jenis penelitian adalah penelitian pengembangan (*Developmental Reseach*), dengan menggunakan model ADDIE. Teknik analisis data yang digunakan adalah kualitatif dan kuantitatif. Hasil analisis kualitatif, kualitas tes soal adalah sangat baik dengan persentasi kevalidan 92%. Hasil analisis Kuantitatif kualitas tes TTMC adalah baik. Analisis 27 butir soal pada uji kelompok kecil diperoleh 24 butir soal diterima dan 3 butir soal ditolak. Uji kelompok besar diperoleh: (1) 19 butir soal valid (71%), 5 soal tidak valid (21%). (2) reliabilitas soal termasuk dalam kategori “Cukup” dengan nilai sebesar 0,587. (3) 3 (13%) soal dalam kategori mudah, 12 (50%) soal kategori sedang dan 9 (38%) soal kategori sulit. (4) Daya pembeda soal didapatkan 14 (58%) soal dalam kategori baik sekali, 5 (21%) soal dalam kategori baik dan 5 (21%) soal dalam kategori jelek. (5) 19 (79%) soal efektif dan 5 (21%) soal tidak efektif. Butir soal yang diterima sebanyak 12 (50%) soal, 7 (29%) soal direvisi dan 5 (21%) soal ditolak.

Kata Kunci: *Two-tier Multiple Choice, Momentum dan Impuls, Validitas, Reliabilitas*



ABSTRACT

Rifka Annisa Girsang (NIM:8176175014). Development of Two-tier Multiple Choice test to Measure Students' Higher Order Thinking Skills of high school students in material Momentum and Impulse. Thesis. Medan: Program Pascasarjana Universitas Negeri Medan, 2019

The study aims to develop Two-tier Multiple Choice (TTMC) test to measure students' Higher Order Thinking Skills (HOTS) in material Momentum and Impulse to standard qualifications of good test based in validity, reliability, level of difficulty, Appropriateness and effectiveness swizzling. The type of research is developmental research, using the ADDIE model. The data analysis technique used is qualitative and quantitative technique. The results of this study based on qualitative analysis showed that quality of the test questions was very good with a percentage of validity of 91,33%. Quantitative analysis of the quality of the TTMC test is good. Analysis of 27 items in the small group trials showed test obtained 24 items received and 3 items were rejected. The large group test was obtained: (1) 19 valid items (71%), 5 invalid items (21%). (2) The test having enough reliability is 0.587. (3) 3 (13%) easy items, 12 (50%) medium items and 9 (38%) difficult items. (4) Appropriateness of the questions was obtained by 14 (58%) questions in the excellent category, 5 (21%) questions in the good category and 5 (21%) questions in the bad category. (5) 19 (79%) were effective items and 5 (21%) were ineffective items. Items received were 12 (50%) questions, 7 (29%) items revised and 5 (21%) items rejected.

Keywords: Development, Two-tier Multiple Choice, Validity, Reliability.

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