

ABSTRAK

Muhammad Aizri Fadillah, 4183121033 (2022), Penyusunan Tes Objektif *Higher Order Thinking Skills* (HOTS) Pada Materi Gerak Parabola dan Melingkar di SMA

Penelitian ini bertujuan untuk menyusun instrumen tes objektif Higher Order Thinking Skills (HOTS) pada materi gerak parabola dan melingkar di SMA yang memenuhi kualifikasi pada aspek validitas, reliabilitas, taraf kesukaran, daya pembeda, dan efektivitas pengecoh. Jenis penelitian yang digunakan adalah Research and Development (R&D) model Borg dan Gall dengan 7 tahapan, yaitu; (1) studi pendahuluan, (2) perencanaan penelitian, (3) pengembangan desain, (4) uji lapangan terbatas, (5) revisi hasil uji lapangan terbatas, (6) uji lapangan lebih luas, (7) revisi hasil uji lapangan lebih luas. Teknik analisis data yang digunakan adalah analisis kualitatif dan kuantitatif. Instrumen tes yang disusun terdiri dari 20 item bentuk pilihan berganda, dengan deskripsi pembagian 10 soal materi gerak parabola dan 10 soal materi gerak melingkar. Hasil uji validasi isi diperoleh instrumen tes objektif sangat valid menurut para ahli dari aspek materi, konstruksi dan bahasa dengan nilai rata-rata 0,95. Hasil uji lapangan terbatas diperoleh 85% item valid, sangat reliabel dengan nilai 0,91, 40% item dengan taraf kesukaran sedang, rata-rata daya pembeda item 0,41 dengan kategori baik, dan efektivitas pengecoh item baik dengan rata-rata 85%. Hasil uji lapangan lebih luas diperoleh 90% item valid, reliabel dengan nilai 0,71, 45% item dengan taraf kesukaran sedang, rata-rata daya pembeda item 0,41 dengan kategori baik, dan efektivitas pengecoh item baik dengan rata-rata 85%.

Kata Kunci : HOTS, Tes Objektif, Gerak Parabola, Gerak Melingkar.



ABSTRACT

Muhammad Aizri Fadillah, 4183121033 (2022). Preparation of Higher Order Thinking Skills (HOTS) Objective Tests on Parabolic and Circular Motion Materials in High School

This study aims to develop an objective test instrument for Higher Order Thinking Skills (HOTS) on parabolic and circular motion material in high school that meets the qualifications in aspects of validity, reliability, level of difficulty, discriminatory power, and effectiveness of distractors. The type of research used is the Research and Development (R&D) model of Borg and Gall with 7 stages, namely; (1) preliminary study, (2) research planning, (3) design development, (4) limited field test, (5) revision of limited field test results, (6) wider field test, (7) revision of more extensive field test results large. The data analysis technique used is qualitative and quantitative analysis. The test instrument that was compiled consisted of 20 multiple-choice items, with a description of the distribution of 10 questions on parabolic motion material and 10 questions on circular motion material. The results of the content validation test obtained that the objective test instrument was very valid according to experts from the aspects of material, construction and language with an average value of 0.95. The results of the limited field test obtained that 85% of items were valid, very reliable with a value of 0.91, 40% of items with a moderate level of difficulty, an average discriminatory power of 0.41 items with good categories, and the effectiveness of distracting items was good with an average of 85%. . The results of the wider field test obtained that 90% of items were valid, reliable with a value of 0.71, 45% of items with a moderate level of difficulty, an average discriminating power of 0.41 items with a good category, and the effectiveness of distracting items was good with an average of 85%.

Kata Kunci: HOTS, Objective Test, Parabolic Motion, Circular Motion.

