

Luluk Nafisah Febrianti. 2020. *Analisis Butir Soal Dengan Software Test Analysis Program Pada Mata Pelajaran IPA*. Skripsi, Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing 1 : Mochammad Ahied dan Pembimbing 2 : Irsad Rosidi.

ABSTRAK

Penelitian ini bertujuan untuk mengetahui kualitas butir soal PAS gasal mata pelajaran IPA kelas VII dari aspek validitas, reliabilitas, tingkat kesukaran, daya pembeda, dan efektivitas pengecoh. Penelitian ini menggunakan desain *mix method research* dengan model *sequential explanatory*. Sampel penelitian menggunakan 6 kelas dengan teknik *non probability sampling*. Teknik pengumpulan data menggunakan teknik observasi, dokumentasi, tes sumatif, penelaah soal, dan wawancara. Teknik analisis data secara kuantitatif menggunakan *software TAP* dan kualitatif menggunakan teknik panel. Hasil penelitian dari aspek validitas item terdapat 28 soal valid (70%), reliabilitas 0,739. Tingkat kesukaran soal sedang mendominasi terdapat 32 soal (80%). Daya pembeda memuaskan 17 soal (43%). Efektivitas pengecoh baik 37 soal (93%). Kualitas soal dari segi isi 36 soal (90%) baik. Berdasarkan hasil penelitian disimpulkan bahwa soal PAS gasal mata pelajaran IPA memiliki kualitas soal yang baik dari aspek kuantitatif maupun isi soal.

Kata Kunci : analisis butir soal, kualitas butir soal, pelajaran IPA, TAP

Luluk Nafisah Febrianti. 2020. *Item Analysis With The Software Test Analysis Program On Science Lesson*. Thesis, Natural Science Education, Education Faculty, University of Trunojoyo Madura. 1st Advisor : Mochammad Ahied and 2st Advisor : Irsad Rosidi.

ABSTRACT

This research aims to find out the quality of the end of semester assessment items 7th grade science subjects from the aspects of validity, reliability, difficulty, differentiation, and distractor. This research using a mix method design with a sequential explanatory model. The research sample used 6 classes with a nonprobability sampling technique. The data were collected by using observation, documentation, summative test, question reviewers, and interviews. Data analysis techniques using TAP software and qualitative using panel techniques. Research results from the aspect of item validity there are 28 valid questions (70%), reliability 0,739. The difficulty is dominated by the medium category there are 32 questions (80%). The differentiation with satisfactory categories there are 17 questions (43%). The distractor good category there are 37 questions (93%). The quality of the questions in term of content there are 36 questions (90%). Based on research result can be conclude about the odd semester final assessment science subjects has a good quality of questions from the quantitative aspect and the validity content.

Keyword : item analysis, quality of questions, science learning, TAP