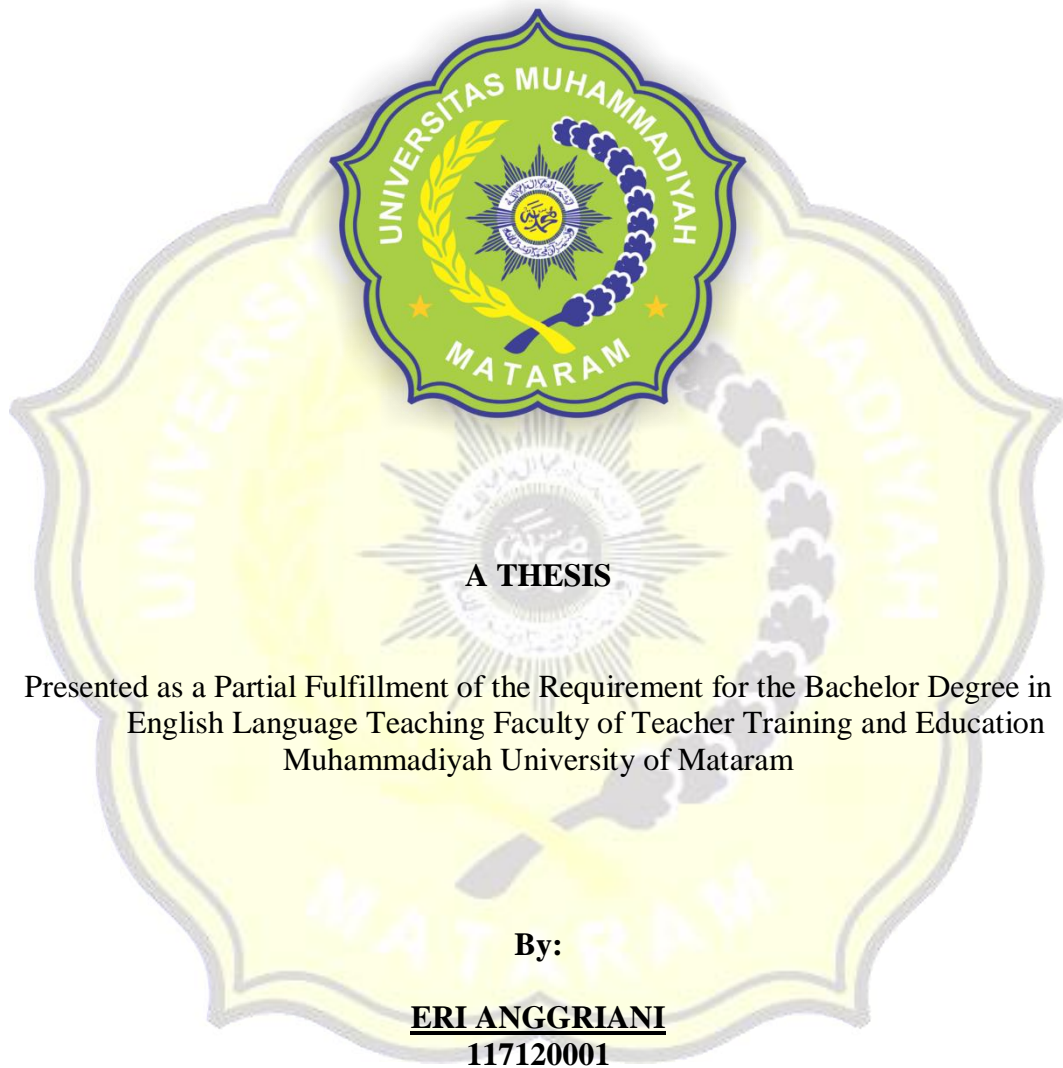


**AN ANALYSIS OF MULTIPLE-CHOICE ITEMS OF ENGLISH FINAL
SEMESTER TEST MADE BY ENGLISH TEACHER
(Study at the Tenth Grade MA AL-MuthmainnahIn Academic Year
2020/2021)**



A THESIS

Presented as a Partial Fulfillment of the Requirement for the Bachelor Degree in
English Language Teaching Faculty of Teacher Training and Education
Muhammadiyah University of Mataram

By:

ERI ANGGRIANI
117120001

**MUHAMMADIYAH UNIVERSITY OF MATARAM
FACULTY OF TEACHER TRAINING AND EDUCATION
ENGLISH LANGUAGE EDUCATION
2021**

APPROVAL SHEET

AN ANALYSIS OF MULTIPLE-CHOICE ITEMS OF ENGLISH FINAL SEMESTER TEST MADE BY ENGLISH TEACHER (Study at the Tenth Grade MA AL-Muthmainnah in Academic Year 2020/2021)

A Thesis by : Eri Anggriani
Student's Number : 117120001
Approved on : July 1st, 2021

By

First Consultant,



Humairah, M.Pd
NIDN.0803048601

Second Consultant,



Moh. Fauzi Bafadal, M.Pd
NIDN.0813028501

MUHAMMADIYAH UNIVERSITY OF MATARAM
FACULTY OF TEACHER TRAINING AND EDUCATION

Head of Program,



Hidayati, M.Hum
NIDN.0820047301

ACCEPTANCE

AN ANALYSIS OF MULTIPLE-CHOICE ITEMS OF ENGLISH FINAL
SEMESTER TEST MADE BY ENGLISH TEACHER (Study at the Tenth
Grade MA AL-Muthmainnah in Academic Year 2020/2021)

A Thesis by : Eri Anggriani
Student's Number : 117120001
Approved on : July 15th, 2021

This is certify that the thesis has been approved by the Board of Examiners as the
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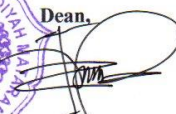
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NIDN.0803048601

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Dean.

Dr. Muhammad Nizaar, M.Pd.Si
NIDN. 0821078501

DECLARATION

The autographed below, the writer as a student of English Department, Faculty of Teacher Training and Education, Muhammadiyah University of Mataram state that:

Name : Eri Anggriani

NIM : 117120001

Address : Jln. Kali Bernyok Gg. Suka Damai No.8

The writer certifies that the thesis entitled "An Analysis of Multiple-Choice Items of English Final Semester Test Made By English Teacher (Study at Tenth Grade Ma AL-Muthmainnah In Academic Year 2020/2021)" presented as fulfillment for the requirement in bachelor degree is my work, except where otherwise acknowledge. This thesis has not been submitted for the other higher degree institution or University.

Mataram, 2021



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117120001



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UPT. PERPUSTAKAAN

Jl. K.H.A. Dahlan No. 1 Mataram Nusa Tenggara Barat
Kotak Pos 108 Telp. 0370 - 633723 Fax. 0370-641906
Website : <http://www.lib.ummat.ac.id> E-mail : upt.perpusummat@gmail.com

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Nama : Eri Anggriani
NIM : 117120021
Tempat/Tgl Lahir : Wadukopa, 24-05-1999
Program Studi : Pendidikan Bahasa Inggris
Fakultas : FKIP
No. Hp/Email : 082340773269 / erianggriani99@gmail.com
Judul Penelitian : -

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NIM. 117120021

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Iskandar, S.Sos., M.A.
MIDN. 0802048904



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Kotak Pos 108 Telp. 0370 - 633723 Fax. 0370-641906
Website : <http://www.lib.ummat.ac.id> E-mail : upt.perpusummat@gmail.com

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NIM : 117120021
Tempat/Tgl Lahir : Wadukopa, 24-05-1999
Program Studi : Pendidikan Bahasa Inggris
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NIM. 117120001

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Kepala UPT. Perpustakaan UMMAT

Iskandar, S.Sos., M.A.
NIDN. 0802048904

Motto

"true self-independence is when we are able to fight the
laziness that is within us"



DEDICATION

I dedicate this research specially for:

- My savior Allah SWT..who helped me through the whole life, blessing me and never let me down... Thanks GOD.
- My beloved parent. My father (A.Rahim) and my mom (Jawariah) who always support emotionally and materially with prayer, love, affection, motivation or encouragement and everything for my life. Without your support I do nothing. Thanks a lot and I love so much.
- My beloved sibling (Edi Rahman, Sukalim, Gunadin, Cintami, DidiHafidudin) who always give me support and motivate to finish this thesis. They are the best gift from GOD. Thank so much.
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- My sister and brother (Asiah, hawusa, titaangelita, fetiverawati, nurfindah, Egarahmawati, Dian puspitasari, Ikbal, Agussetiawan, AtunAbniatun) thank you for always support me.
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- My close friends (Jumiati, Alpiniaulia, widianti, IyanSetiawan, Jul Amirulhaq, Feni, Aimansyah) who always support me in everything.

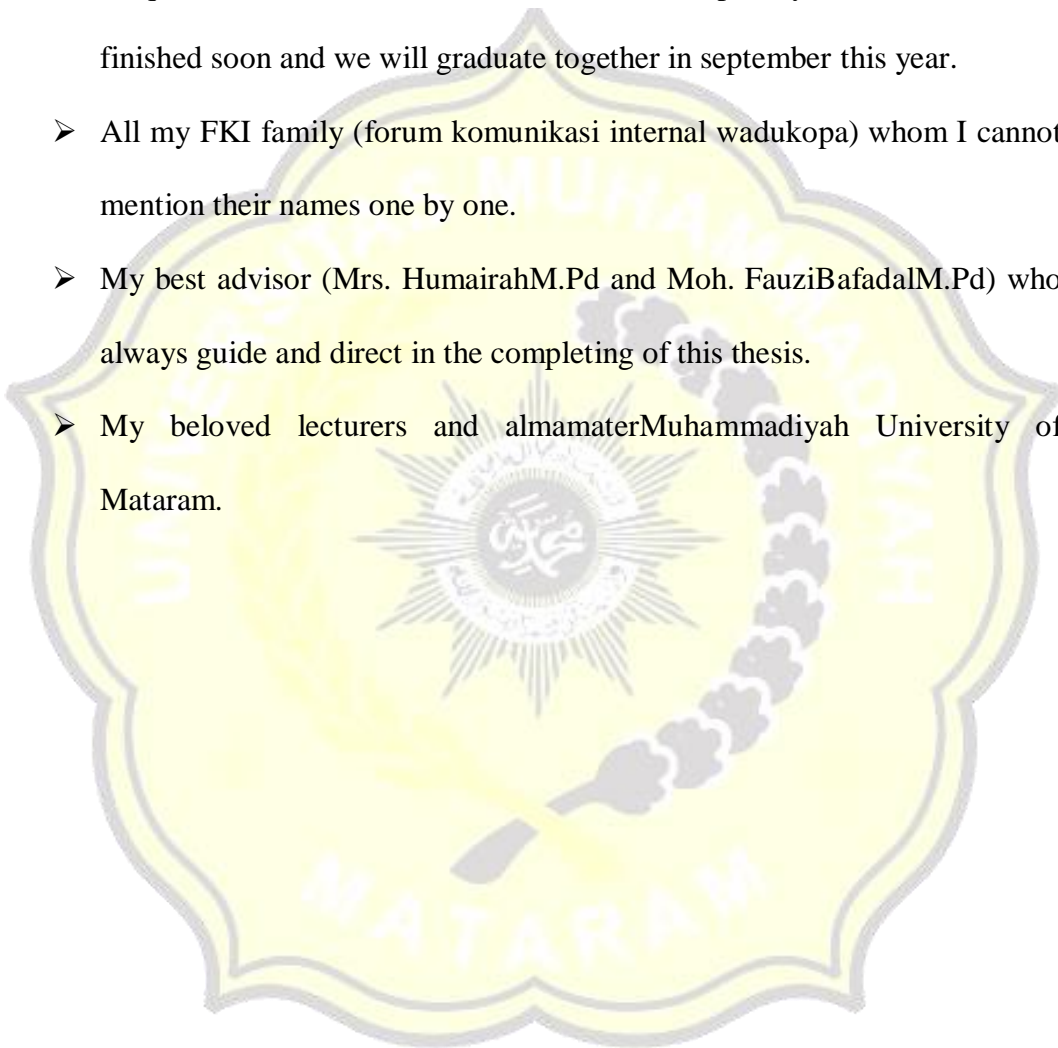
Thanks you

- My classmate in English department (Tetisuhaira,Suci, Wulandari, Yeyen, Rifqil, Zaskia, Zein, asroli, Tanti Fardianti) hopefully all matters will be finished soon and we will graduate together in september this year.

- All my FKI family (forum komunikasi internal wadukopa) whom I cannot mention their names one by one.

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Bismillahirrahmanirrahim,

Alhamdulillah, the researcher would like to praise to Allah SWT, who has given the researcher health, bless and chance during the writing this thesis, so that the thesis entitled "**An Analysis of Multiple-Choice Items of English Final Semester Test Made by English Teacher**". This thesis was compiled as one of the requirements in completing the bachelor degree (S-1) of the English Language Teaching Program Faculty of Teacher Training and Education Muhammadiyah University of Mataram.

The researcher realizes that the completion of this thesis is based on assistance from various parties. On this great occasion, the researcher would like to thanks all of those who gave the researcher help guidance and advice in composing this thesis. This thank would be delivered to:

1. Dr. H. ArsyadAbd. Gani, M.Pd., as the Rector of Muhammadiyah University of Mataram.
2. Dr. Hj. Maemunah, S.Pd, M.H., as the Dean of Faculty of Teacher Training and Education of Muhammadiyah University of Mataram.
3. Hidayati, M.Hum., as the head of English Education Department for advices.
4. Humairah, M.Pd., as the first consultant for the encouragement and advice for completing this thesis.
5. Moh. FauziBafadal, M.Pd., as the second consultant for the encouragement and advice for completing this thesis.

Finally, the researcher realizes that this thesis is still far from being perfect. Therefore, any suggestions and criticism for better of this thesis. The researcher prays that all who helped get the blessing from Allah SWT.

Mataram, May 27th2021

EriAnggriani



ABSTRACT

EriAnggriani, 117120001. **An Analysis of Multiple-Choice Items of English Final Semester Test Made by English Teacher (Study at Tenth Grade MA Al-Muthmainnah in Academic Year 2020/2021)** "A Thesis". Mataram: Muhammadiyah University of Mataram.

Advisor 1: Humairah, M.Pd.

Advicor 2: Moh. FauziBafadal, M.Pd.

This study aims to determine the level of difficulty of the multiple-choice items and discrimination power of the English final semester test at the tenth grade made by the English teacher of MA AL-Muthmainnah. This research was a case study and it was categorized as a quantitative study using descriptive analysis. Data collection technique was documentation study. Data analysis techniques was done statistically that viewed from the level of difficulty and discrimination power. Based on the research result, from 25 items of the English final test at the tenth grade, it was found that the difficulty level as follows; items that categorized as moderate difficulty level were 68%, items that categorized as difficult difficulty level were 24% and the items that categorized as easy difficulty level were 8%. While the discrimination power level as follows; items have the poor discrimination power were 32%, items have the satisfactory discrimination power were 44% and items have the good discrimination power were 24%.

Keyword: The Analysis item, Difficulty level, Discrimination power level.

ABSTRAK

Eri Anggriani, 117120001. **An Analysis of Multiple-Choice Items of English Final Semester Test Made by English Teacher (Study at Tenth Grade MA Al-Muthmainnah in Academic Year 2020/2021)** "A Thesis". Mataram: Muhammadiyah University of Mataram.

Pembimbing1: Humairah, M.Pd.

Pembimbing2: Moh. FauziBafadal, M.Pd.

Penelitian ini bertujuan untuk mengetahui tingkat kesukaran soal pilihan ganda dan tingkat daya pembeda pada tes ujian akhir semester kelas X yang di susun oleh guru bahasa Inggris di MA AL-Muthmainnah. Penelitian ini adalah penelitian studi kasus dan dikategorikan sebagai penelitian quantitative dengan menggunakan analisis deskriptif. Teknik pengumpulan data berupa studi dokumentasi. Teknik analisis data yaitu secara statistic ditinjau dari tingkat kesukaran dan daya pembeda. Berdasarkan penelitian ini, dari 25 soal tes akhir pada kelas X mata pelajaran bahasa Inggris ditemukan tingkat kesukaran sebagai berikut; soal-soal yang di kategorikan memiliki tingkat kesukaran sedang adalah 68%, soal-soal yang dikategorikan memiliki tingkat kesukaran sulit adalah 24%, dan soal-soal yang di kategorikan tingkat kesukaran yang mudah adalah 8%. sedangkan Tingkat daya pembeda sebagai berikuT; soal-soal yang memiliki tingkat daya pembeda kurang sebanyak 32%, soal-soal yang memiliki tingkat daya pembeda memuaskan sebanyak 44%, dan soal-saol yang memiliki tingkat daya pembedabaik adalah 24%.

Kata kunci: Analisis butirsoal, Tingkat Kesukaran, Tingkat Daya Pembeda.

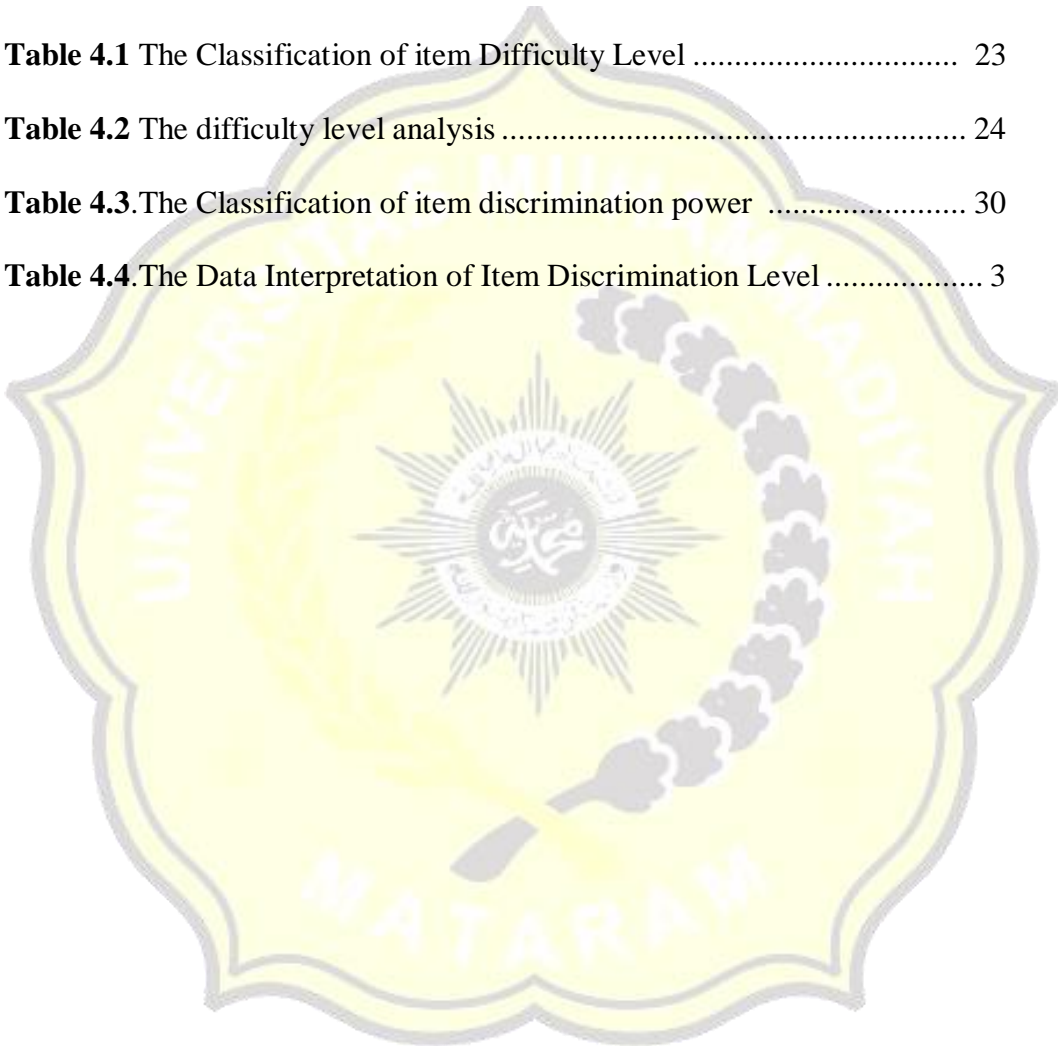
TABLE OF CONTENTS

COVER	i
APPROVAL SHEET	ii
ACCEPTANCE.....	iii
DECLARATION	iv
PLAGIARISM SHEET	v
PUBLICATION SHEET	vi
MOTTO	vii
DEDICATION	viii
ACKNOWLEDGEMENT	x
ABSTRACT	xiii
TABLE OF CONTENTS.....	xv
TABLE LIST.....	xviii
CHAPTER I INTRODUCTION	1
1.1 Background of the Study	1
1.2 Research question.....	3
1.3 Research Objectives	4
1.4 Scope and Limitation of Research	4
1.5 Definition of Key Terms.....	4
CHAPTER II REVIEW OF RELATED LITERATURE	6
2.1 Theoretical Review	6
1. Definiton of Test.....	6

2. Types of Test.....	7
3. Item Analysis of Test.....	9
4. Multiple-choice Items	13
2.2 Previous Research Findings	14
CHAPTER III RESEARCH METHODOLOGY.....	17
3.1 Method of the Study	17
3.2 Data and Source of Data	18
3.3 The Technique of Data Collection	18
3.4 Data Analysis Technique	19
CHAPTER IV FINDINGS AND DISCUSSION	22
4.1 Finding	22
4.2 Discussion	34
CHAPTER V CONCLUSION AND SUGGESTION.....	39
5.1 Conclusion	39
5.2 Suggestion	39
BIBLIOGRAPY	41
APPENDIX	

TABLE LIST

Table 2.1 The Classification of item Difficulty Level	13
Table 2.2 The Classification of item Discrimination Power	14
Table 3.1 The Difficulty Level Classification	20
Table 3.2 The Classification of Item Discriminating Power.....	21
Table 4.1 The Classification of item Difficulty Level	23
Table 4.2 The difficulty level analysis	24
Table 4.3. The Classification of item discrimination power	30
Table 4.4. The Data Interpretation of Item Discrimination Level	3



CHAPTER I

INTRODUCTION

1.1 Background of the Study

Assessment is essentially critical in the teaching and learning process. The assessment also plays an important role. The assessment evaluates the students' progress throughout the learning process by gathering the information needed variously. It also provides information to the teacher on the learning outcomes that the students have achieved.

The infield of the teaching and learning process, especially in English, cares to know if we are doing the right thing and whether our activities will lead to the result we want to achieve. Thus, the evaluation is needed to measure student's achievements in the teaching dan learning process. The assessment itself is a process of assessing to describe student achievement according to established criteria. In this evaluation, the teacher will see the level of student achievement that who has achieved. Providing daily tests, midterms, and final exams is one of the educational evaluation programs. Given a test is a part of the evaluation. A test is usually defined as a collection of items whose answers can be true-false.

In MA AL-Muthmainnah, the assessment most often used by the teacher is multiple-choice. Thus, the measuring instrument used in the assessment must provide an overview of students' learning abilities. Therefore, it is necessary to analyze the quality of the multiple-choice items. This question

analysis aims to determine the level of difficulty of the items and the discrimination power of multiple-choice items. In the multiple-choice items, especially the English final semester, most of the teachers arranged the questions without paying attention to the quality of the multiple-choice items, one of which was the difficulty level and discriminating power of the items themselves.

At this moment, MA AL-Muthmainnah has never previously conducted research related to multiple-choice items of the English final semester. Based on the problem found at tenth grade MA AL-Muthmainnah, students' different levels of knowledge can be seen from their performance in the test. Thus, the researcher believes that analyzing the item is very important for creating a good test and improving test items to which extent the quality of a test can be determined. Not only for improving the quality of test items but also the analysis items are intended to determine to what extent the test clearly shows the difference among students regarding their level of knowledge of content and material of lessons being tested.

Seeing this fact, the researcher chooses MA AL-Muthmainnah as the place to conduct this research. MA AL-Muthmainnah is one of the private schools in the Soromandi sub-district. According to the researcher's information, the types of items used to assess students in the test were multiple-choice. With these facts, and the researcher decided to research at the school.

There are some researchers, conduct research about multiple-choice. The first is research conducted by AyuAmaliyah (2018) with the title "An analysis of multiple-choice items made by the teacher based on Bloom's revised taxonomy theory at tenth grade of SMA NegeriSidoarjo. Second, research was conducted by Mina, Regina, BambangWijaya (2013), and the title is "An analysis on the English multiple-choice item test for primary students". The previousresearch conducted by Hartati, N., & Yogi, H. P. S. (2019) the title is "item analysis for a Better Quality Test". So, the existence of these previous studies, the research was conducted related to multiple-choice to determine the test's quality in assessing and measuring students' achievement.

The phenomena above encourage the writer to do the descriptive analysis of multiple-choice items used for the final semester at tenth-grade students MA AL-Muthmainnah 2020/2021 academic year based on difficulty level and discriminating power of multiple-choice items. The researcher wants to research the title" An Analysis of Multiple choice items of Englishfinalsemesterat the tenth-grade MA AL-Muthmainnah in the academic year 2020/2021.

1.2 Research Question

Based on the background of the study above, the question is formulated as follow:

1. How is the difficulty level of the multiple-choice items of the final semester test at the tenth grade MA AL-Muthmainnah in the academic year 2020/2021?

2. How is the discrimination power of the multiple-choice items of the final semester test at the tenth grade MA AL-Muthmainnah in the academic year 2020/2021?

1.3 Research objectives

As seen from the research questions above, the research objectives are:

1. To find out the difficulty level of multiple-choice items of the final semester test at the tenth grade MA AL-Muthmainnah in the academic year 2020/2021.
2. To examine the discrimination power of multiple-choice items of final semester test at the tenth grade MA AL-Muthmainnah in the academic year 2020/2021.

1.4 Scope and Limitation of Research

This research has been conducted in MA AL-Muthmainnah at the tenth-grade students. The study focused on multiple-choice items in the tenth grade in the final semester test. The subject of the study was students in the tenth grade in the MA AL-Muthmainnah, while the object of the study is the multiple-choice question sheet and students answer sheets from the tenth grade in the MA AL-Muthmainnah.

1.5 Definition of Key terms

1. Multiple-choice

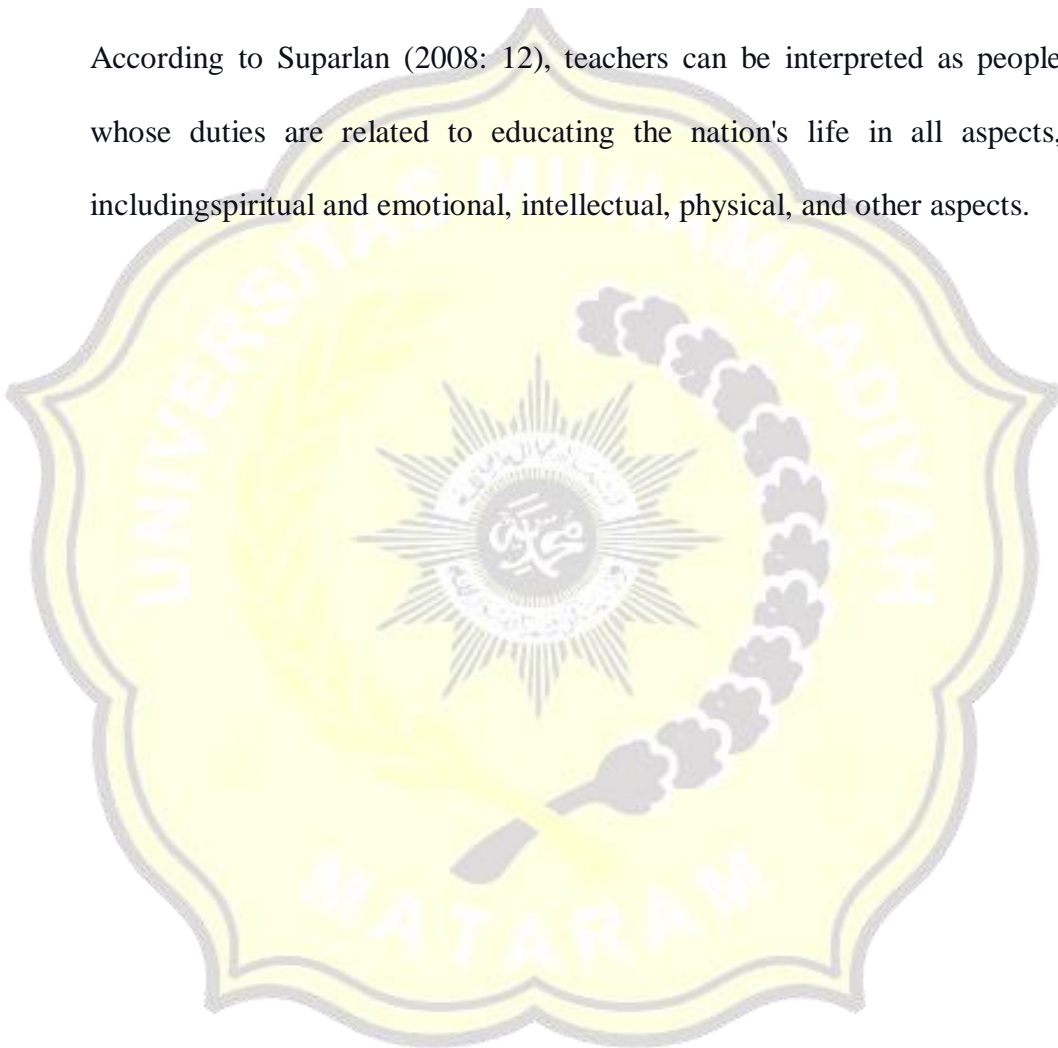
According to Heaton (1988: 30), A multiple-choice is a form of assessment where respondents were asked to choose the best answer.

2. Final Semester

Assessment in education system national test consisting of daily tests, general test, classroom promotion tests, school final exams, and national exams (Depdiknas, 2003)

3. Teachers

According to Suparlan (2008: 12), teachers can be interpreted as people whose duties are related to educating the nation's life in all aspects, including spiritual and emotional, intellectual, physical, and other aspects.



CHAPTER II

REVIEW OF RELATED LITERATURE

2.1 Previous Research Findings

The researcher has some relevant previous researches that support this research. The final project: inspires the research

The first research is conducted by AyuAmaliyah (2018) by the title "An analysis of multiple-choice items made by the teacher based on Bloom's revised taxonomy theory at tenth grade of SMA Negeri 1 Sidoarjo. This research was conducted; this study aims to know levels of learning in multiple-choice items made by the teacher based on the new version of Bloom's cognitive level at tenth grade of SMA Negeri 1 Sidoarjo. This study uses a descriptive qualitative approach. To collectedthe data, this research used documentation. The researcher analyzed 35 multiple-choice items using the new version of Bloom's cognitive level.

The second research was conducted by Mina, Regina, BambangWijaya (2013) with the title "An analysis on the English multiple-choice item test for primary students". This research concentrates on specific questions regarding the item validity, the test scores reliability, and item analysis to provide information that will improve test items construction. A descriptive method is applied to describe and examine the data.

The last research was conducted by Hartati, N., & Yogi, H. P. S. (2019) entitle "Items Analysis for a Better Quality Test". This study is the small-scale study of item analysis of a teacher's own-made summative test. It examines

the quality of multiple-choice items regarding the difficulty level, the discriminating power, and the effectiveness of distractors. The study employed a qualitative approach which also used a simple quantitative analysis to analyze the quality of the test items through the document analysis of the teacher's English summative test and the students' answer sheets.

In addition, the similarities and differences between my research and the three theses above are: the first thesis by AyuAmaliah (2018) is the same as analyzing multiple-choice items, and the difference is that this thesis uses a revised taxonomy theory to analyze the multiple-choice items, whereas I don't use any theory, I only focus on analyzing the level of difficulty and discriminating power on the multiple-choice question. In the second thesis by Mina, Regina, BambangWijaya (2013), the similarities with this thesis is the same as analyzing multiple-choice items. Still, this thesis only focuses on difficulty level and discriminating power. At the same time, the only difference in this thesis is that this thesis analyzes selected questions in primary students. In contrast, the writer analyzes the multiple-choice items at the senior high school level, for the last journal by Hartati, N., & Yogi, H. P. S. (2019), the similarities this research, that the writer concerning on difficulty level and discriminating power of multiple-choice items. In contrast, the difference in this journal is the item analysis of the English summative test made by the teacher.

2.2 Theoretical Review

1. Test

a. Definition of Test

Tests are questions that are given to students to get answers from students in oral form (oral test), in written form (written test), or in the form of action (test action) (Sudjana, 2013: 35). According to Uno and Koni (2012: 111) test, a set of stimuli is given to someone to get the answer to be the basis for scoring. The score is based on a score representative of test follower behavior, which indicates the extent to which the test person has moderate characteristics. Furthermore, Koyan (2011: 7) states that the test is the instrument or systematic tool which consists of set questions or tasks to measure a particular behavior in learners with the help of a numeric scale or specific categories.

From the description of the experts above, it can be concluded that the test is a systematic way or tool to measure student ability, in which there is a set of questions to get answers from students either in oral, written, or deed form and used as a basis for assessment and scoring of numbers.

Heaton (1988: 5) stated that tests might be constructed primarily as devices to reinforce learning and motivate the student or assess the student's performance in the language. In the former case, the test is geared to the teaching that has taken place, whereas in the latter case, the teaching is often geared main 6 the test. Then, Brown (2004: 3) added

that a test is a method of measuring a person's ability or knowledge in a given domain. It consists of some systematic procedures for gathering data about students' achievement and can be instruments, techniques, or procedures to have the students respond through performance or tasks in the form of a set question.

Hughes (1993: 7) stated that testing has several purposes, as follows:

1. To measure language proficiency.
2. To discover how successful students have been in achieving the objectives of a course of study.
3. To diagnose students' strengths and weaknesses, to identify what they know and what they do not know;
4. To assist students' placement by identifying the stage or part of a teaching program most appropriate to their ability.

2. Types of Test

There are some types of tests, according to Hughes (1993:9). There are:

1. Proficiency Test

Proficiency tests are tests designed to measure people's ability in a language, regardless of any training they may have had in that language. Therefore, the content of a proficiency test is not based on the content or objectives of language courses that people taking the test may have

followed. Rather, it is based on a specification of what candidates have to be able to do in the language to be considered proficient.

2. Achievement Test

As seen from the name, the purpose of this achievement test is to determine the success of students, both individually and in groups, or the courses themselves have been in achieving objectives. Brown (2004:47) stated that an achievement test is related directly to classroom lessons, units, or even an entire curriculum.

It can be concluded that the learning outcome test is used to assess the level of student success in learning that has been determined following the objectives of the learning. Teachers also use learning outcomes tests to motivate students to study hard. For example, by giving quizzes every week or at the end of the semester, the effect is often an increase in study time near the test of time.

3. Aptitude Test

Brown (2004:43) stated that an aptitude test is designed to measure capacity or general ability to learn a foreign language and ultimate success in that undertaking. Aptitude tests are ostensibly designed to apply to the classroom learning of any language. Ormrod (2008:347) also stated that an aptitude test is to identify students who are most likely to succeed in certain subjects. The test may also be used to counsel students about educational plans and career choices in the future.

This aptitude test measures students' ability to learn so they know specific talents of students, for example, in language learning, whether students have special talents

a. Diagnostic Test

Heaton (1988:173) stated that diagnostic test is widely used; few tests are constructed solely as diagnostic tests. Note that diagnostic testing is frequently carried out of groups of students rather than for individuals.

b. Placement Test

Brown (2004:54) stated that certain proficiency tests could act in the role of placement tests, the purpose of which is to place a student into a particular level or section of a language curriculum or school. A placement test usually, but not always, includes a sampling of the material to be covered in the various course in a curriculum, a student's performance on the test should indicate the point at which the student will find material neither too easy nor too difficult but appropriately challenging

3. Item Analysis

A good test must also be good at its item analysis; there are several simple statistical ways to check individual items. Brown (2004:58-60) stated that "they are: difficulty level, discriminating power, and distractor effectiveness.

a. The Difficulty level of the item

The difficulty level is one of a kind of item analysis. The level of difficulty was concerned with how difficult or easy the item for the students. Shohamy (1985:79) states that difficulty level relates to how easy or difficult the item is from the students who took the test. It is essential since test items that are too easy can tell us nothing about the test population's differences. If the item is too easy, most or all of the students obtained the correct answer.

In contrast, if the item is difficult, most or all of the students get it wrong. The quality of options is a distribution of tests in decided alternatives on a multiple-choice test. It is obtained by calculating the number of test who choose the alternatives A, B, C, or D or those who do not choose any alternatives. In this way, the teachers would be able to identify whether distractors function well or badly.

Arikunto (2013: 222) stated that a good test is not too easy or too difficult. A good test item must have a difficulty level, including easy, medium, and difficult levels. Moderate level items belong to the category of effective and good tests. Items that are too easy or difficult could weaken the test's quality, and the validity of the information about data Student achievements will not be acquired.

The difficulty index (P) of the item scan be determined by calculating the proportion of test-takers that answer the item correctly. The following is the formula for calculating the item difficulty index:

$$P=NP/N$$

In which:

P = Indeks of difficulty level

NP = Number of test-takers answering correctly

N = number of test-takers responding to that item.

(Bachman, 1990:125)

In this case, the difficulty level must be classified on the rank scale of difficulty level as follows:

Table 2.1 The Classification of item Difficulty Level

Interpretation	P
Difficult	0,00 – 0,30
Moderate	0,31 – 0,70
Easy	0,71 – 1,00

(Suharsimi Arikunto, 2013: 210)

b. Discrimination Power

Brown (2004:59) stated that discriminating power is the extent to which an item differentiates between high and low test-takers. Sudijono (2012: 387) stated that discriminating is calculated based on classification into two groups, higher and lower groups.

Item discrimination index (D) can be obtained by dividing into two groups according to their scores on the test as a whole: a higher group and a lower group. The following formula is employed to determine the item discrimination index:

$$D = \frac{B_A}{J_A} - \frac{B_B}{J_B}$$

Where:

D: Item Discrimination (Discrimination Power)

BA: number of top test takers that have the correct answer

BB: number of bottom test takers that have the correct answer

JA: total participant of top test-takers

JB: total participant of bottom test-takers

(Brown, 2004: 59)

After the item discrimination index is found, the discriminating power of an item can be determined. The determine the discriminating power, and the following classification can be used to indicate whether the discriminating power of an item is excellent, good, satisfactory, poor or worst.

Table 2.2 The Classification of Item Discriminating Power:

Discrimination Index	Quality
0,00 – 0,20	Poor
0,21 – 0,40	Satisfactory
0,41 – 0,70	Good
0,71 – 1.00	Excellent

(Suharsimi Arikunto. Op. Cit., p. 232)

c. Distractor Analysis

Furthermore, the last item analysis activity is effectiveness bully. This is a procedure that deals specifically with multiple-choice items. This switch's function is to divert students from the correct answer if they do not know correctly. According to Sudijono (2012: 411), determining whether a distractor 17 can work effectively if a switch has been selected by at least 5% of all test takers. The effectiveness of distractor analysis provides information about how successfully a

distraction has distracted students who have not learned well from the correct answers.

4. Multiple Choice items

According to Heaton (1988: 30), A multiple-choice is a form of assessment where respondents were asked to choose the best answer. This item is most frequently used in educational testing. According to Popham (2011: 148) stated that the multiple-choice items could be used to measure a student's possession of knowledge or the student's ability to engage in higher thinking levels.

According to SJ Burton (1991) stated that The advantages of multiple-choice items are:

1. Multiple-choice items are objectively scored; they are not affected by scorer inconsistencies, as are essay questions.
2. Therefore, a student is able to answer many multiple-choice items in the time it would take to answer a single essay question. This feature enables the teacher to use multiple-choice items to test a broader sample of course content in a given amount of testing time.
3. Multiple-choice items are amenable to rapid scoring, which is often done by scoring machines.

Heaton (1988) stated that The general principles should be observed when multiple-choice items are constructed:

1. Each multiple-choice item should have only one answer.

2. Only one feature should be tested: it is usually less confusing for the tester, and it helps to reinforce a particular teaching point. Few would wish to test both grammar and vocabulary simultaneously, but sometimes word order and sequence of tenses are tested simultaneously.
3. Each option should be grammatically correct when placed in the stem, except, of course, in the case of specific grammar test items.
4. All multiple-choice items should be at a level appropriate to the proficiency level of the testers.
5. Multiple-choice items should be as brief and as clear as possible (though it is desirable to provide short context for grammar items).
6. In many tests, items are arranged in rough order of increasing difficulty. It is generally considered essential to have one or two simple items to "lead in" the testers, especially if they are not too familiar with the kind of test being administered

CHAPTER III

RESEARCH METHODOLOGY

In this chapter, the researcher talked about research methods. Research methods are indispensable in conducted research; with this helping, the researcher found their study results. Research methods related to how we do research are constructive for researchers in solving problems. Also, the subject matter will be straightforward and easy to understand if we apply adequate methods. This chapter will describe the steps, namely, method of study, research location, data and source data research instrument, data collection technique and data analysis technique.

3.1 Method of the Study

This research used a case study. In Creswell, 2010: 20). Stake (in Denzin & Lincoln, 1994: 236-238) details the characteristics of the study cases are as follows: 1). Case studies are a form of research (inquiry) or the study of a specific problem (particularity). 2). It can be done either with a qualitative approach or quantitative, but more emphasis is placed on a qualitative approach. 3). Case study objectives can be in the form of individuals or groups, even the wider community.

This study is categorized as quantitative research using descriptive analysis. The writer described the difficulty level and discrimination power by analyzing the multiple-choice items of the English final semester of the tenth-grade student's MA AL-Muthmainnah in the academic year 2020/2021.

3.2 Data and Source of Data

The researcher conducted this Research at MA Al-Muthmainnah. The data and the source this research was the document analysis. The data and source of data were documented. The document came from the multiple-choice items sheet and students' answer sheets. Then the research instrument was document analysis. There were 25 multiple-choice items and 16 students took the final semester test at the tenth grade in MA AL-Muthmainnah.

3.3 The Technique of Data Collection

This research data was collected through the documentation study. Data is obtained from 16 of the students' answers to items in the English final semester test. A total of 25 items in the form of multiple-choice were used in the item analysis process. For the scoring technique, every correct answer is given one point and zero for each wrong answer.

There are several steps in data collection techniques, namely:

1. The writer came to the school and introduced the writer to the school residents.
2. After that, the writer came to the classroom. Then introduced to the English teacher and students.
3. The writer took the question sheet sample/document from the English teacher.
4. The last step was analyzing the multiple-choice test by difficulty level and discrimination power of multiple-choice items.

3.4.Data Analysis Technique

For data analysis, descriptive statistics were employed in this research. In a descriptive quantitative approach, descriptive statistics are defined as numerical, graphical, and tabular techniques for organizing, analyzing, and presenting data (George Argyrous, 2011: 20). This research described the difficulty level and discriminating power for each multiple-choice test item based on the index.

In addition, the steps for analyzing the data were as follow:

1. Taking the English multiple-choice paper and students' answer sheets.
2. Arranged or ranked the score from the highest to lowest
3. Divided the students into two groups: upper and lower groups by arranging the students' scores from the highest to the lowest.
4. Analyzing the test based on the difficulty and discriminating power
5. Interpreting the level of difficulty and classification of discriminating power based on the numerical data.
6. The writer was describing the difficulty and item discriminating power of the English multiple-choice items test.

To determine the difficulty level and discriminating index of items, the data has beencalculated by using the following formula:

The formula of item difficulty index:

$$P = NP/N$$

P = Indeks of difficulty level

NP = Number of test-takers answering correctly

N = number of test-takers responding to that item.

(Bachman, 1990:125)

The formula of item discrimination index:

$$D = \frac{B_A}{J_A} - \frac{B_B}{J_B}$$

Where:

D: Item Discrimination (Discrimination Power)

BA: number of top test takers that have the correct answer

BB: number of bottom test takers that have the correct answer

JA: total participant of top test-takers

JB: total participant of bottom test-takers

(Brown, 2004: 59)

For interpreting the level of item difficulty and discriminating power. The difficulty level could be found out by the classification of difficulty level indeks as follows:

Table. 3.1 The Difficulty Level Classification

Interpretation	P
Difficult	0,00 – 0,30
Moderate	0,31 – 0,70
Easy	0,71 – 1,00

(SuharsimiArikunto, 2013: 210)

Table 3.2 The Classification of Item Discriminating Power:

Discrimination Index	Quality
0,00 – 0,20	Poor
0,21 – 0,40	Satisfactory
0,41 – 0,70	Good
0,71 – 1.00	Excellent

(Suharsimi Arikunto, 2016p. 232)

