

Chapter 5:

Conclusion and Suggestions

This chapter is the final chapter of this research. It covered the conclusion of the research and the suggestion that can be given to the reader.

Conclusion

Regarding to the research finding and discussion in the preview chapter, the point of this research can be concluded that the application of English pop song was successfully helped the learners at the grade VIIIIB of SMPN 2 Pulubala in mastering their vocabulary. It was clearly seen in the result of their post-test was higher than the result of their pre-test after having the treatments.

Furthermore the hypothesis of this research showed that $t_{\text{observation}}$ was higher than t_{table} with the value $12.91 > 1.714$ by applying the significant of $\alpha = 0.05$ and degree of freedom $(n-1) = 23$. As the consequent, the hypothesis of this research (H1) is received while the null hypothesis (H0) is rejected. This result implies that the application of English pop song was eligible to be applied as the teaching medium of vocabulary.

Suggestion

After conducting this research, it can be suggested to the all the English teacher, English learner, and the other researcher that vocabulary mastering has an important role in acquiring language skills namely, reading, speaking, listening, and writing.

The teachers as the learning sources need to be creative in choosing and applying the learning medium, particularly in learning vocabulary. Thus, through this research the teacher can use the English pop song in teaching English vocabulary in order to make the learners to be more interested to the material. Moreover this research is also expected can inspire the English teachers in finding or using the innovative learning medium of vocabulary that makes the learners more interested to the learning materials, because one of the important of learning medium is to get their interest. Therefore, once they are interested to the learning medium, they will enjoy learning and easy to accept the teaching materials.

In addition, during conducting this research, it was found that most of the learner's problem in leaning vocabulary was their error written of word/vocabulary. They were mostly wrote the spelling of pronunciation of the word, not the written, therefore it is really expected for the English teacher to find another solution to overcome this problem.

While for the learners, they need to consider the existence of the vocabulary as the main point of the language, therefore mastering English vocabulary is very important in learning all skill aspects of the language. There are many methods, mediums and strategy of learning vocabulary, as being offered in this research; the learners can use the song particularly English pop songs as the medium of mastering vocabulary. To make it more effective, learning English vocabulary through the song should be occurred frequently; therefore it will make the learners more familiar with the vocabulary in the song lyric and the pronunciation of the vocabulary. Furthermore using English pop song as the

learning medium is also expected can motivate the learners in learning English, particularly English vocabulary.

Finally for the other researcher, hopefully this research could be the previous study for their research, particularly for them who are concerned in the field of English language teaching. This research is also expected can inspire the upcoming researcher in finding an interesting and motivating learning medium, especially in learning English vocabulary.

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Appendix 1

RENCANA PELAKSANAAN PEMBELAJARAN (RPP)

Nama Sekolah	: SMPN 2 PULUBALA
Mata Pelajaran	: Bahasa Inggris
Kelas/Semester	: VIII/ 2
Alokasi Waktu	: 2 x 45 menit
Topik Pembelajaran	: <i>Teks Lagu Pendek dan Sederhana</i>

Kompetensi Inti (KI)

1. Menghayati dan mengamalkan ajaran agama yang dianutnya
2. Menghargai perilaku (jujur, disiplin, tanggung jawab, peduli, santun, rasa ingin tahu, percaya diri, toleran, motivasi internal, pola hidup sehat, dan ramah lingkungan) dalam berinteraksi secara efektif dengan lingkungan sosial dan alam dalam jangkauan pergaulan dan keberadaannya.
3. Memahami, pengetahuan (faktual, konseptual, dan prosedural) dalam ilmu pengetahuan, teknologi, seni, budaya, dan humaniora dengan wawasan keagamaan, kebangsaan, kenegaraan, dan peradaban terkait fenomena dan kejadian yang tampak mata.
4. Mencoba, mengolah, menalar, dan menyaji berbagai hal dalam ranah kongkret (menggunakan, mengurai, merangkai, memodifikasi, dan membuat) dan ranah abstrak (menulis, membaca, menghitung,

menggambar dan mengarang) sesuai dengan yang dipelajari di sekolah dan dari berbagai sumber lain yang sama dalam sudut pandang/teori.

Kompetensi dasar dan indikator pencapaian kompetensi:

Kompetensi Dasar (KD):

- Mensyukuri kesempatan dapat mempelajari bahasa Inggris sebagai bahasa pengantar Komunikasi internasional yang diwujudkan dalam semangat belajar
- Menunjukkan perilaku santun dan peduli dalam melaksanakan komunikasi interpersonal dengan guru dan teman.
- 3.15 Memahami fungsi sosial dan unsur kebahasaan dalam lagu, pesan dalam lagu.
- 4.19 Menangkap makna lagu.

Indikator:

- Memahami definisi dari vocabulary/kosa kata
- memahami meaning, synonym dan antonym dari kosa kata dalam syair lagu
- Menangkap makna lagu.

Tujuan pembelajaran :

- Peserta didik dapat menunjukkan kesungguhan dalam belajar bahasa Inggris melalui kegiatan memahami kosa kata dalam lagu

- Peserta didik dapat menunjukkan perilaku percaya diri dan bertanggung jawab dalam melaksanakan komunikasi melalui pemahaman lagu.
- Peserta didik dapat memahami arti, sinonim dan antonym dari kosa kata yang ada dalam syair lagu.
- Peserta didik dapat menangkap makna lagu

Materi pembelajaran,

Teks lagu pendek dan sederhana

Metode Pembelajaran:

- *TBL (Task Based Learning), Diskusi, Tanya-jawab, dan Presentasi*

Media, dan Sumber Pembelajaran:

1. Media : Laptop dan Speaker Active
2. Sumber Belajar : internet sources

Langkah-langkah pembelajaran**Kegiatan Pendahuluan (10')**

- Menyiapkan peserta didik untuk mengikuti proses pembelajaran seperti berdoa, absensi, menyiapkan buku pelajaran;

- Memotivasi peserta didik secara kontekstual sesuai dengan manfaat pembelajaran teks lagu pendek dan sederhana, seperti lagu yang dapat memotivasi peserta didik untuk dapat meraih cita-citanya;
- Mengajukan pertanyaan-pertanyaan untuk mereview materi sebelumnya dan juga tentang sair lagu yang ditayang terkait dengan materi yang akan dipelajari:
- Menjelaskan tujuan pembelajaran atau kompetensi dasar yang akan dicapai; dan menyampaikan cakupan materi dan penjelasan uraian kegiatan sesuai silabus.
- Guru memberikan penjelasan singkat tentang aspek dari vocabulary, konsep dan macam macam aspek dari vocabulary jika diperlukan.

Kegiatan Inti (70')

Mengamati (14')

- Peserta didik mendengarkan sebuah lagu
- Peserta didik mencermati setiap kata dalam syair lagu

Menanya (10')

- Dengan bimbingan dan arahan guru, peserta didik mempertanyakan teks lagu yang ada dalam bahasa Inggris terutama yang berhubungan dengan arti, sinonim dan antonim.

Mengumpulkan Informasi (18')

- Peserta didik membuat list dari setiap kosa kata yang bisa mereka tangkap dari syair lagu
- Peserta didik mendengarkan lagu secara lengkap untuk menyesuaikan dengan kosa kata yang mereka dapatkan.

Mengasosiasi (14')

- Peserta didik mencari makna kata-kata, sinonim dan antonim dari list kosa kata yang mereka dapatkan dari lirik lagu.

Mengkomunikasikan (14')

- Peserta didik secara bersama sama mendiskusikan hasil temuan mereka dengan teman dan guru

Penutup (10')

- Memberikan umpan balik terhadap proses dan hasil pembelajaran;
- Peserta didik menuliskan permasalahan dalam menggunakan bahasa Inggris untuk memuji dalam jurnal belajar (learning journal).
- Menginformasikan rencana kegiatan pembelajaran untuk pertemuan berikutnya.

Mengetahui
Kepala Sekolah

Mahasiswa Peneliti

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Appendix 2**Name of Pre-Test and Post Test Sample**

- 1. Aldi Ayuba**
- 2. Abd. Rahman Supu**
- 3. Danial Hasan**
- 4. Dwi Puspita Magfira Djoli**
- 5. Fatma D. Husain**
- 6. Fitriani R. Djiu**
- 7. Irsan Husain**
- 8. Ismail S. Palo**
- 9. Isman Siru**
- 10. Kifli K. Rasid**
- 11. Liskawati Supu**
- 12. Mutmainah Paramata**
- 13. Nurfaizan Daud**
- 14. Nur Ulul Azmi T. Mopangga**
- 15. Serlin N. Tuna**
- 16. Sofyan A. Mahmud**
- 17. Stegit Aditya Kadir**
- 18. Sumiati Hedingo**
- 19. Vindiani I. Saleh**
- 20. Yasni J. Dama**
- 21. Yusuf A. Masi**
- 22. Yusuf Hasan**
- 23. Ario Poma**
- 24. Moh. Rizki Yantu**

Appendix 3

Try out Test

Name :
Class :
Direction : Please identify the meaning, synonym and antonym of the underlined words based on the text!

Read this stanza to answer the question number 5 and 6.

*So many people all around the world
 Tell me where do I find someone like
 you girl*

5. What is the meaning of the underlined word (people) in the song lyric above?
- a. orang c. tumbuhan
 b. hewan d. benda

Take Me to Your Heart

By: Michael Learns To Rock

Read this stanza to answer the question number 1 to number 4.

*Hiding from the rain and snow
 Trying to forget but I won't let go
 Looking at a crowded street
Listen to my own heart beat*

1. What is the antonym of the underlined word (from) in the song lyric above?
- a. By b. for c. on d. at
2. What is the meaning of the underlined word (forget) in the song lyric above?
- a. Mengingat c. meminta
 b. memberikan d. melupakan
3. What is the meaning of the underlined word (street) in the song lyric above?
- a. Rumah c. Jalan
 b. Sekolah d. Kantor
4. What is the synonym of the underlined word (listen) in the song lyric above?
- a. Hear b. Smell c. Touch
 d. See

6. What is the meaning of the underlined word (like) in the song lyric above?
- a. Seperti c. tidak sama
 b. Sama d. tidak seperti

Read this stanza to answer the question number 7 to number 10!

*Take me to your heart take me to your
soul
 Give me your hand before I'm old
Show me what love is - haven't got a
 clue
 Show me that wonders can be true*

7. What is the meaning of the underlined word "soul" in song lyric above?
- a. Jiwa c. cinta
 b. Hati d. Perasaan
8. What is the antonym of the underlined word (old) in the song lyric above?
- a. young b. bad c. beautiful
 d. short
9. What is meaning of the underlined word "show" in the song lyric above?
- a. Tunjukkan c. Berikan
 b. Lihatlah d. Maafkan

10. What is the antonym of the underlined word (true) in the song lyric above?
a. Good b. bad c. false d. interest

Read this stanza to answer the question number 11 to number 14!

*They say nothing lasts forever
We're only here today
Love is now or never
Bring me far away*

*Take me to your heart take me to your soul
Give me your hand and hold me
Show me what love is - be my guiding star
It's easy take me to your heart*

*Standing on a mountain high
Looking at the moon through a clear blue sky
I should go and see some friends
But they don't really comprehend*

11. What is the meaning of the underlined word (say) in the song lyric above?
a. Mengatakan c. melihat
b. mencium d. mendengar
12. What is the antonym of the underlined word (here) in the song lyric above?
a. There .b. above c. under d. beside
13. What is the synonym of the underlined word (bring) in the song lyric above?
a. put b. take c. hang d. deliver
14. What is the meaning of the underlined word (heart) in the song lyric above?
a. Hati b. jantung c. dada d. perut

Read this stanza to answer the question number 15 and number 16!

*Don't need too much talking without saying anything
All I need is someone who makes me wanna sing*

15. What is the antonym of the underlined word "much" in the song lyric above?
a. Little b. small c. many d. large
16. What is the synonym of the underlined word (someone) in the song lyric above?
a. someday c. sometimes
b. somebody d. something

Call on Love

By: Michael Learns to Rock

Read this stanza to answer the question number 17 to number 20!

*You're always there
Even in my darkest days
Hey, Superman
Take a break
You give so much of yourself*

But you know, even heroes need some help

17. What is the meaning of the underlined word (always) in the song lyric above?
a. Selalu c. Jarang
b. Setiap d. Tidak pernah
18. What is the antonym of the underlined word (always) in the song lyric above?
c. usually c. never
d. often d. rarely

19. What is the synonym of the underlined word (much) in the song lyric above?
 a. Many b. little c. Small
 d. Big

20. What is the synonym of the underlined word (know) of the song lyric above?
 a. forget c. unknown
 b. remember d. understand

This stanza for question number 21 to number 24!

*If you've lost the fight
 Between wrong and right
 You can call on love to guide you
 If you've lost your faith
 Don't you be ashamed
 You can call on love to find you
 And love will answer
 Love will answer
 You can call on love*

21. What is the antonym of the underlined word (wrong) in the song lyric above?
 a. right b. false c. good d.
 bad

22. What is the meaning of the underlined word (call) in the song lyric above?
 a. Buat b. panggil c. antar
 d. beri

23. What is the meaning of the underlined word (lost) in the song lyric above?
 a. Hilang c. hanyut
 b. melayang d. terbang

24. What is the meaning of the underlined word (find) in the song lyric above?
 a. Menemukan c. memakai
 b. memberikan d. mengambil

Read this stanza to answer the question number 25!

You take the fall

*And no one ever sees you jump
 You save a soul
 and now you're numb
 And the pain that's in your chest
 A world is changing
 But don't give up just yet*

25. What is the meaning of the underlined word (changing) in the song lyric above?
 a. Bertahan c. Berubah
 b. Berfikir d. Berusaha

*If you've lost the fight
 Between wrong and right
 You can call on love to guide you
 If you've lost your faith
 Don't you be ashamed
 You can call on love to find you
 And love will answer
 Love will answer
 You can call on love
 Ooohh
 Love will answer
 Love will answer
 You can call on love*

Read this stanza to answer the question number 26 to number 28!

26. What is the antonym of the underlined word (right) in the song lyric above?
 a. True b. wrong c. good
 d. bad

27. What is the meaning of the underlined word (love) in the song lyric above?
 a. Hati b. jiwa c. cinta d.
 perasaan

28. What is the meaning of the underlined word (can) in the song lyric above?
 a. Lupa b. mengerti c. tahu d.
 bisa

Read this stanza to answer the question number 29 and 30!

You don't get it, doing on your own

Yeah yeah yeah
Doesn't matter where you've gone
wrong
Love won't judge you

29. What is the synonym of the underlined word (wrong) in the song lyric above?
a. True b. right c. good d. false
30. What is the meaning of the underlined word (you) in the song lyric above??
a. mereka b. dia c. saya
d. kau

Appendix 4**The Key Answer of Try out Test**

1. B
2. D
3. C
4. A
5. A
6. A
7. A
8. A
9. A
10. C
11. A
12. A
13. B
14. A
15. A
16. B
17. A
18. D
19. A
20. D
21. A
22. B
23. A
24. A
25. C
26. B
27. C
28. D
29. D
30. D

Appendix 5

The Test of Pre-Test and Post-Test

Name : c. orang c. tumbuhan
d. hewan d. benda

Class :

Direction : Please identify the meaning, synonym and antonym of the underlined words based on the text!

4. What is the meaning of the underlined word (like) in the song lyric above?
c. Seperti c. tidak sama
d. Sama d. tidak seperti

Read this stanza to answer the question number 5 to number 7!

Take Me to Your Heart

By: Michael Learns To Rock

Read this stanza to answer the question number 1 to number 2!

*Hiding from the rain and snow
Trying to forget but I won't let go
Looking at a crowded street
Listen to my own heart beat*

1. What is the meaning of the underlined word (street) in the song lyric above?
c. Rumah c. Jalan
d. Sekolah d. Kantor
2. What is the synonym of the underlined (listen) in the song lyric above?
b. Hear b. Smell c. Touch
d. See

Read this stanza to answer the question number 3 and 4.

*So many people all around the world
Tell me where do I find someone like
you girl*

3. What is the meaning of the underlined word (people) in the song lyric above?

*Take me to your heart take me to your soul
Give me your hand before I'm old
Show me what love is - haven't got a
clue
Show me that wonders can be true*

5. What is the meaning of the underlined word "soul" in song lyric above?
c. Jiwa c. cinta
d. Hati d. Perasaan
6. What is the antonym of the underlined word (old) in the song lyric above?
b. young b. bad c. beautiful
d. short
7. What is meaning of the underlined word "show" in the song lyric above?
c. Tunjukan c. Berikan
d. Lihatlah d. Maafkan

Read this stanza to answer the question number 8 to number 10!

*They say nothing lasts forever
We're only here today
Love is now or never
Bring me far away*

Take me to your heart take me to your

soul
Give me your hand and hold me
Show me what love is - be my guiding
star
It's easy take me to your heart

Standing on a mountain high
Looking at the moon through a clear
blue sky
I should go and see some friends
But they don't really comprehend

8. What is the meaning of the underlined word (say) in the song lyric above?
 c. Mengatakan c. melihat
 d. mencium d. mendengar
9. What is the antonym of the underlined word (here) in the song lyric above?
 b. There .b. above c. under d.
 beside
10. What is the meaning of the underlined word (heart) in the song lyric above?
 b. Hati b. jantung c. dada d.
 perut

Read this stanza to answer the question number 11!

Don't need too much talking without
saying anything
All I need is someone who makes me
wanna sing

11. What is the antonym of the underlined word "much" in the song lyric above?
 b. Little b. small c. many d. large

Call on Love

By: Michael Learns to Rock

Read this stanza to answer the question number 12 to number 14!

You're always there
Even in my darkest days
Hey, Superman
Take a break
You give so much of yourself

But you know, even heroes need
some help

12. What is the meaning of the underlined word (always) in the song lyric above?
 e. Selalu c. Jarang
 f. Setiap d. Tidak pernah
13. What is the antonym of the underlined word (always) in the song lyric above?
 g. usually c. never
 h. often d. rarely
14. What is the synonym of the underlined word (much) in the song lyric above?
 b. Many b. little c. Small
 d. Big

This stanza for question number 15 to number 18!

If you've lost the fight
Between wrong and right
You can call on love to guide you
If you've lost your faith
Don't you be ashamed
You can call on love to find you
And love will answer
Love will answer
You can call on love

15. What is the antonym of the underlined word (wrong) in the song lyric above?
 b. right b. false c. good d.
 bad

16. What is the meaning of the underlined word (call) in the song lyric above?

- b. Buat b. panggil c. antar
d. beri

17. What is the meaning of the underlined word (lost) in the song lyric above?

- c. Hilang c. hanyut
d. melayang d. terbang

18. What is the meaning of the underlined word (find) in the song lyric above?

- c. Menemukan c. memakai
d. memberikan d. mengambil

Read this stanza to answer the question number 19!

*You take the fall
And no one ever sees you jump
You save a soul
and now you're numb
And the pain that's in your chest
A world is changing
But don't give up just yet*

19. What is the meaning of the underlined word (changing) in the song lyric above?

- c. Bertahan c. Berubah
d. Berfikir d. Berusaha

Read this stanza to answer the question number 20 to number 22!

*If you've lost the fight
between wrong and right
You can call on love to guide you
If you've lost your faith
Don't you be ashamed
You can call on love to find you
And love will answer
Love will answer
You can call on love
Ooohh
Love will answer*

*Love will answer
You can call on love*

20. What is the antonym of the underlined word (right) in the song lyric above?

- b. True b. wrong c. good d. bad

21. What is the meaning of the underlined word (love) in the song lyric above?

- b. Hati b. jiwa c. cinta d. perasaan

22. What is the meaning of the underlined word (can) in the song lyric above?

- b. Lupa b. mengerti c. tahu d. bisa

Appendix 6**Key Answer of Pre-Test and Post-Test**

1. C	12. A
2. A	13. D
3. A	14. A
4. A	15. A
5. A	16. B
6. A	17. A
7. A	18. A
8. A	19. C
9. A	20. B
10. A	21. C
11. A	22. D

.

**Appen
lix 7**

The Instrument of Try out Test

No mple	Score Item															Score Item															Σ	Σ
	1	2	3	4	5	6	7	8	9	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3		
1	0	0	1	1	1	1	1	1	0	0	1	1	0	1	1	0	1	1	1	0	1	1	1	1	1	1	1	0	1	2	4	
2	1	1	0	1	0	1	0	0	0	1	1	0	1	0	0	1	1	1	0	1	0	0	0	0	0	0	1	0	1	1	1	
3	0	1	1	1	0	1	1	0	0	0	1	1	1	1	1	1	0	1	1	0	0	1	0	0	0	1	1	1	0	1	1	
4	0	0	1	0	1	1	1	0	1	1	1	1	0	1	1	0	1	1	1	0	1	1	1	1	1	0	1	1	0	0	2	
5	1	0	1	0	0	0	1	1	1	1	1	1	0	1	1	0	1	1	1	0	1	1	1	1	1	0	1	1	0	1	2	
6	0	0	1	1	1	1	0	1	0	1	1	0	1	0	1	1	0	0	1	0	1	1	0	0	1	1	1	1	1	1	1	
7	0	0	1	1	0	1	1	1	1	0	1	1	0	1	1	0	1	1	1	0	1	0	1	1	1	1	1	1	0	0	2	
8	1	0	0	0	1	1	1	0	1	1	1	0	1	1	0	0	1	1	1	0	1	1	1	1	1	1	1	0	1	1	2	
9	1	0	0	0	0	1	0	0	0	1	1	1	1	1	0	1	0	1	1	0	1	1	0	0	0	1	1	1	1	1	1	
10	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	0	1	1	0	1	1	1	1	0	1	1	2	
11	0	0	1	1	1	1	1	0	1	0	1	1	0	1	1	0	1	1	1	0	1	1	1	1	0	1	1	1	1	1	2	
12	0	1	1	1	0	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	0	1	1	1	1	0	1	1	0	1	1	
13	0	0	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	0	1	1	1	0	0	1	1	1	0	0	2	
14	0	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	0	1	0	0	1	0	1	1	0	1	0	0	1	
15	0	0	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1	0	1	1	1	1	0	1	0	1	0	0	2	
16	1	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	1	9	
17	0	0	1	1	1	1	1	1	0	0	1	1	0	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	0	1	2	
18	0	0	1	1	1	1	1	0	1	0	1	1	0	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	0	0	2	
19	1	0	1	1	1	1	1	0	1	0	0	1	0	1	1	1	1	0	0	0	0	1	1	0	1	0	0	1	1	1	1	
20	0	0	1	1	1	1	1	1	0	0	1	1	0	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	0	0	2	

21	1	1	1	1	0	0	0	1	0	1	1	1	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2
22	0	1	0	0	1	0	1	0	1	1	0	1	0	1	0	1	1	1	0	1	0	0	0	1	1	0	1	1	1	1	1	1	1	2	
23	0	0	0	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	2	4	
24	0	0	1	1	1	1	1	1	1	0	1	1	0	1	1	0	0	1	1	0	1	0	1	0	1	1	1	1	1	1	0	0	1	3	
ΣX	7	6	1	1	1	2	1	1	1	1	2	1	6	1	1	1	1	2	2	5	1	1	1	1	1	1	1	1	1	1	9	1	4	8	
ΣX	4	3	2	3	2	4	3	1	1	1	4	3	3	3	2	1	3	4	4	2	2	3	2	1	2	2	3	3	8	2					
ΣX	1	9	3	3	3	3	2	2	1	3	3	1	3	3	1	3	3	3	6	3	3	3	2	2	3	3	3	1	2						
(ΣX)	7	6	1	1	1	2	1	1	1	1	2	1	6	1	1	1	1	2	2	5	1	1	1	1	1	1	1	1	2	1	9	1			
Ket	I	I	V	V	V	V	V	V	I	V	V	I	V	V	I	V	V	V	I	V	V	V	V	V	V	V	V	V	I	i					
	d	d							d			d			d				d										d	d					

Appendix 9

The Validity Testing for Each Question

$$\begin{aligned}
 r_1 &= \frac{24(115)-(7)(451)}{\sqrt{24(7)-(49)\{24(8701)-(203401)\}}} \\
 &= \frac{2760-3157}{\sqrt{168-(49)(208824-203401)}} \\
 &= \frac{-397}{\sqrt{(119)(5423)}} \\
 &= \frac{-397}{\sqrt{645337}} \\
 &= \frac{-397}{803,32} \\
 &= -0.494 \text{ (Invalid)}
 \end{aligned}$$

$$\begin{aligned}
 R_2 &= \frac{24(91)-(6)(451)}{\sqrt{24(6)-(36)\{24(8701)-(203401)\}}} \\
 &= \frac{2184-2706}{\sqrt{144-(36)(208824-203401)}} \\
 &= \frac{-522}{\sqrt{(108)(5423)}} \\
 &= \frac{-522}{\sqrt{585684}} \\
 &= \frac{-522}{765.21} \\
 &= -0.682 \text{ (Invalid)}
 \end{aligned}$$

$$\begin{aligned}
 R_3 &= \frac{24(333)-(17)(451)}{\sqrt{24(17)-(289)\{24(8701)-(203401)\}}} \\
 &= \frac{7992-7667}{\sqrt{408-(289)(208824-203401)}} \\
 &= \frac{325}{\sqrt{(119)(5423)}} \\
 &= \frac{-325}{\sqrt{645337}} \\
 &= \frac{325}{803,32} \\
 &= 0.404 \text{ (valid)}
 \end{aligned}$$

$$\begin{aligned}
R_4 &= \frac{24(356)-(18)(451)}{\sqrt{24(18)-(324)}\{24(8701)-(203401)\}} \\
&= \frac{8544-8118}{\sqrt{432-(324)}(208824-203401)} \\
&= \frac{426}{\sqrt{(108)(5423)}} \\
&= \frac{426}{\sqrt{585684}} \\
&= \frac{426}{765.29} \\
&= 0.557 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
R_5 &= \frac{24(318)-(16)(451)}{\sqrt{24(16)-(256)}\{24(8701)-(203401)\}} \\
&= \frac{7632-7216}{\sqrt{384-(256)}(208824-203401)} \\
&= \frac{416}{\sqrt{(128)(5423)}} \\
&= \frac{416}{\sqrt{694144}} \\
&= \frac{416}{833.153} \\
&= 0.499 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
R_6 &= \frac{24(390)-(20)(451)}{\sqrt{24(20)-(400)}\{24(8701)-(203401)\}} \\
&= \frac{9360-9020}{\sqrt{480-(400)}(208824-203401)} \\
&= \frac{340}{\sqrt{(80)(5423)}} \\
&= \frac{340}{\sqrt{433840}} \\
&= \frac{340}{658.66} \\
&= 0.516 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
R_7 &= \frac{24(377)-(19)(451)}{\sqrt{24(19)-(361)}\{24(8701)-(203401)\}} \\
&= \frac{9048-8569}{\sqrt{456-(361)}(208824-203401)} \\
&= \frac{479}{\sqrt{(95)(5423)}} \\
&= \frac{479}{\sqrt{515185}} \\
&= \frac{479}{717.76} \\
&= 0.639 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
R_8 &= \frac{24(241)-(12)(451)}{\sqrt{24(12)-(144)}\{24(8701)-(203401)\}} \\
&= \frac{5784-5412}{\sqrt{288-(144)}(208824-203401)} \\
&= \frac{372}{\sqrt{(144)(5423)}} \\
&= \frac{372}{\sqrt{780912}} \\
&= \frac{372}{883.69} \\
&= 0.418 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
R_9 &= \frac{24(260)-(13)(451)}{\sqrt{24(13)-(169)}\{24(8701)-(203401)\}} \\
&= \frac{6240-5863}{\sqrt{312-(169)}(208824-203401)} \\
&= \frac{337}{\sqrt{(143)(5423)}} \\
&= \frac{337}{\sqrt{775489}} \\
&= \frac{337}{880.61} \\
&= 0.428 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
R_{10} &= \frac{24(171)-(11)(451)}{\sqrt{24(11)-(121)\{24(8701)-(203401)\}}} \\
&= \frac{4104-4961}{\sqrt{264-(121)(208824-203401)}} \\
&= \frac{-857}{\sqrt{(143)(5423)}} \\
&= \frac{-857}{\sqrt{775489}} \\
&= \frac{-857}{880.61} \\
&= -0.973 \text{ (Invalid)}
\end{aligned}$$

$$\begin{aligned}
R_{11} &= \frac{24(393)-(20)(451)}{\sqrt{24(20)-(400)\{24(8701)-(203401)\}}} \\
&= \frac{9432-9020}{\sqrt{480-(400)(208824-203401)}} \\
&= \frac{412}{\sqrt{(80)(5423)}} \\
&= \frac{412}{\sqrt{433840}} \\
&= \frac{412}{658.66} \\
&= 0.625 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
R_{12} &= \frac{24(373)-(19)(451)}{\sqrt{24(19)-(361)\{24(8701)-(203401)\}}} \\
&= \frac{8952-8569}{\sqrt{456-(361)(208824-203401)}} \\
&= \frac{383}{\sqrt{(95)(5423)}} \\
&= \frac{383}{\sqrt{515185}} \\
&= \frac{383}{717.76} \\
&= 0.533 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
R_{13} &= \frac{24(104)-(6)(451)}{\sqrt{24(6)-(36)}\{24(8701)-(203401)\}} \\
&= \frac{2496-2706}{\sqrt{144-(36)}(208824-203401)} \\
&= \frac{-210}{\sqrt{(108)(5423)}} \\
&= \frac{-210}{\sqrt{585684}} \\
&= \frac{-210}{765.29} \\
&= -0.274 \text{ (Invalid)}
\end{aligned}$$

$$\begin{aligned}
R_{14} &= \frac{24(374)-(19)(451)}{\sqrt{24(19)-(361)}\{24(8701)-(203401)\}} \\
&= \frac{8976-8569}{\sqrt{456-(361)}(208824-203401)} \\
&= \frac{407}{\sqrt{(95)(5423)}} \\
&= \frac{407}{\sqrt{515185}} \\
&= \frac{407}{717.76} \\
&= 0.567 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
R_{15} &= \frac{24(319)-(16)(451)}{\sqrt{24(16)-(256)}\{24(8701)-(203401)\}} \\
&= \frac{7656-7216}{\sqrt{384-(256)}(208824-203401)} \\
&= \frac{440}{\sqrt{(128)(5423)}} \\
&= \frac{440}{\sqrt{694144}} \\
&= \frac{440}{833.15} \\
&= 0.528 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
R_{16} &= \frac{24(162)-(10)(451)}{\sqrt{24(10)-(100)\{24(8701)-(203401)\}}} \\
&= \frac{3888-4510}{\sqrt{240-(100)(208824-203401)}} \\
&= \frac{-622}{\sqrt{(140)(5423)}} \\
&= \frac{-622}{\sqrt{759220}} \\
&= \frac{-622}{871.33} \\
&= -0.713 \text{ (Invalid)}
\end{aligned}$$

$$\begin{aligned}
R_{17} &= \frac{24(353)-(18)(451)}{\sqrt{24(18)-(324)\{24(8701)-(203401)\}}} \\
&= \frac{8472-8118}{\sqrt{432-(324)(208824-203401)}} \\
&= \frac{354}{\sqrt{(108)(5423)}} \\
&= \frac{354}{\sqrt{585684}} \\
&= \frac{354}{765.29} \\
&= 0.462 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
R_{18} &= \frac{24(390)-(20)(451)}{\sqrt{24(20)-(400)\{24(8701)-(203401)\}}} \\
&= \frac{9360-9020}{\sqrt{480-(400)(208824-203401)}} \\
&= \frac{340}{\sqrt{(80)(5423)}} \\
&= \frac{340}{\sqrt{433840}} \\
&= \frac{340}{658.66} \\
&= 0.516 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
R_{19} &= \frac{24(389)-(20)(451)}{\sqrt{24(20)-(400)\{24(8701)-(203401)\}}} \\
&= \frac{9336-9020}{\sqrt{480-(400)(208824-203401)}} \\
&= \frac{316}{\sqrt{(80)(5423)}} \\
&= \frac{316}{\sqrt{433840}} \\
&= \frac{316}{658.66} \\
&= 0.479 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
R_{20} &= \frac{24(69)-(5)(451)}{\sqrt{24(5)-(25)\{24(8701)-(203401)\}}} \\
&= \frac{1656-2252}{\sqrt{120-(25)(208824-203401)}} \\
&= \frac{-596}{\sqrt{(95)(5423)}} \\
&= \frac{-596}{\sqrt{515185}} \\
&= \frac{-596}{717.76} \\
&= -0.830 \text{ (Invalid)}
\end{aligned}$$

$$\begin{aligned}
R_{21} &= \frac{24(327)-(16)(451)}{\sqrt{24(16)-(256)\{24(8701)-(203401)\}}} \\
&= \frac{7847-7216}{\sqrt{384-(256)(208824-203401)}} \\
&= \frac{631}{\sqrt{(128)(5423)}} \\
&= \frac{631}{\sqrt{69296}} \\
&= \frac{631}{263.24} \\
&= 2.397 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
R_{22} &= \frac{24(359)-(18)(451)}{\sqrt{24(18)-(324)\{24(8701)-(203401)\}}} \\
&= \frac{8616-8118}{\sqrt{432-(324)(208824-203401)}} \\
&= \frac{498}{\sqrt{(108)(5423)}} \\
&= \frac{498}{\sqrt{585684}} \\
&= \frac{498}{765.29} \\
&= 0.650 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
R_{23} &= \frac{24(323)-(16)(451)}{\sqrt{24(16)-(256)\{24(8701)-(203401)\}}} \\
&= \frac{7752-7216}{\sqrt{384-(256)(208824-203401)}} \\
&= \frac{536}{\sqrt{(128)(5423)}} \\
&= \frac{536}{\sqrt{694144}} \\
&= \frac{536}{883.15} \\
&= 0.606 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
R_{24} &= \frac{24(279)-(14)(451)}{\sqrt{24(14)-(196)\{24(8701)-(203401)\}}} \\
&= \frac{6696-6314}{\sqrt{336-(196)(208824-203401)}} \\
&= \frac{382}{\sqrt{(140)(5423)}} \\
&= \frac{382}{\sqrt{759220}} \\
&= \frac{382}{871.33} \\
&= 0.438 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
R_{25} &= \frac{24(299)-(15)(451)}{\sqrt{24(15)-(225)\{24(8701)-(203401)\}}} \\
&= \frac{7176-6765}{\sqrt{360-(225)(208824-203401)}} \\
&= \frac{441}{\sqrt{(135)(5423)}} \\
&= \frac{441}{\sqrt{732105}} \\
&= \frac{441}{855.63} \\
&= 0.515 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
R_{26} &= \frac{24(335)-(17)(451)}{\sqrt{24(17)-(289)\{24(8701)-(203401)\}}} \\
&= \frac{8040-7667}{\sqrt{408-(289)(208824-203401)}} \\
&= \frac{373}{\sqrt{(119)(5423)}} \\
&= \frac{373}{\sqrt{645337}} \\
&= \frac{373}{803.32} \\
&= 0.464 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
R_{27} &= \frac{24(374)-(19)(451)}{\sqrt{24(19)-(361)\{24(8701)-(203401)\}}} \\
&= \frac{8976-8569}{\sqrt{456-(361)(208824-203401)}} \\
&= \frac{407}{\sqrt{(95)(5423)}} \\
&= \frac{407}{\sqrt{515185}} \\
&= \frac{407}{717.76} \\
&= 0.567 \text{ (valid)}
\end{aligned}$$

$$\begin{aligned}
 r_{28} &= \frac{24(371)-(19)(451)}{\sqrt{24(19)-(361)}\{24(8701)-(203401)\}} \\
 &= \frac{8904-8569}{\sqrt{456-(361)}(208824-203401)} \\
 &= \frac{335}{\sqrt{(95)(5423)}} \\
 &= \frac{335}{\sqrt{515185}} \\
 &= \frac{335}{717.76} \\
 &= 0.466 \text{ (valid)}
 \end{aligned}$$

$$\begin{aligned}
 R_{29} &= \frac{24(162)-(9)(451)}{\sqrt{24(9)-(81)}\{24(8701)-(203401)\}} \\
 &= \frac{3888-4059}{\sqrt{216-(81)}(208824-203401)} \\
 &= \frac{-171}{\sqrt{(135)(5423)}} \\
 &= \frac{-171}{\sqrt{732105}} \\
 &= \frac{-171}{885.63} \\
 &= -0.193 \text{ (Invalid)}
 \end{aligned}$$

$$\begin{aligned}
 R_{30} &= \frac{24(273)-(15)(451)}{\sqrt{24(15)-(225)}\{24(8701)-(203401)\}} \\
 &= \frac{6552-6765}{\sqrt{360-(225)}(208824-203401)} \\
 &= \frac{-213}{\sqrt{(135)(5423)}} \\
 &= \frac{-213}{\sqrt{732105}} \\
 &= \frac{-213}{885.63} \\
 &= -0.248 \text{ (Invalid)}
 \end{aligned}$$

Appendix 10

Table of Status Validity

Number of Test	r_{list}	R_{count}	Status of Validity
1	0.404	-0.494	Invalid
2	0.404	-0.682	Invalid
3	0.404	0.404	Valid
4	0.404	0.557	Valid
5	0.404	0.499	Valid
6	0.404	0.516	Valid
7	0.404	0.634	Valid
8	0.404	0.418	Valid
9	0.404	0.428	Valid
10	0.404	-0.973	Invalid
11	0.404	0.625	Valid
12	0.404	0.533	Valid
13	0.404	-0.274	Invalid
14	0.404	0.567	Valid
15	0.404	0.528	Valid
16	0.404	-0.713	Invalid
17	0.404	0.462	Valid
18	0.404	0.516	Valid
19	0.404	0.479	Valid
20	0.404	-0.830	Invalid
21	0.404	2.397	Valid
22	0.404	0.650	Valid
23	0.404	0.606	Valid
24	0.404	0.438	Valid
25	0.404	0.515	Valid
26	0.404	0.464	Valid
27	0.404	0.567	Valid
28	0.404	0.466	Valid
29	0.404	-0.193	Invalid
30	0.404	-0.248	Invalid

Appendix 11

The Reliability Testing of the Instrument

$$r_{11} = \frac{k}{(k-1)} \left[1 - \frac{m(k-m)}{k \cdot v_t} \right] \quad v_t = \frac{\sum y^2 - \frac{(\sum y)^2}{k}}{k}$$

$$k = 30$$

$$\sum y = 541$$

$$N = 24$$

$$m = \frac{\sum y}{N} = \frac{451}{24} = 18.79$$

$$V_t = \frac{8701 - \frac{203401}{30}}{30}$$

$$V_t = \frac{8701 - 6780}{30}$$

$$V_t = 64.03$$

Therefore:

$$r_{11} = \frac{30}{(30-1)} \left[1 - \frac{18.79(30-18.79)}{30 \times 64.03} \right]$$

$$r_{11} = \frac{30}{29} \left[1 - \frac{18.79 \times 11.21}{1920.9} \right]$$

$$r_{11} = 1.034 \times \left[1 - \frac{210.63}{1920.9} \right]$$

$$r_{11} = 1.034 \times 1 - 0.109$$

$$r_{11} = 1.034 - 0.109$$

$$r_{11} = 0.925$$

Appendix 12

The Instrument of Pre-Test

No Sa mple	Score Items																					T O T A L	PER CE NT AG E	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21			22
FH	1	0	1	1	1	1	0	1	0	1	0	1	1	1	0	0	0	1	1	1	0	0	13	59
M P	1	0	1	1	1	1	0	0	0	1	1	0	0	1	1	0	0	1	0	1	0	1	12	55
ST	1	0	1	1	1	1	0	1	0	1	1	1	0	0	0	0	0	1	0	1	0	0	11	50
IS	0	0	1	1	1	0	1	1	0	1	0	0	0	1	0	1	1	1	1	0	1	0	12	55
AP	1	0	1	1	0	1	1	0	0	0	1	1	1	0	0	1	1	0	0	1	1	1	13	59
LS	1	0	1	0	0	1	0	0	1	0	1	1	1	1	1	0	0	1	1	0	0	0	11	50
S M	0	0	1	1	1	0	1	1	0	1	1	0	0	1	0	1	1	1	0	0	0	1	12	55
FJ	1	1	0	0	1	0	0	1	1	1	1	1	0	0	1	0	1	0	0	1	1	1	13	59
N D	1	1	0	0	1	0	0	1	1	1	0	1	0	1	0	1	1	1	1	1	1	0	14	64
N A	1	1	0	0	1	0	0	0	1	1	0	0	1	1	1	0	0	1	1	1	1	1	13	59
AS	0	0	1	1	1	0	1	1	0	0	1	1	0	0	1	1	1	0	0	1	1	0	12	55
IH	0	0	0	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	11	50
A A	1	1	0	1	1	1	1	1	1	0	0	0	1	1	1	0	1	0	0	1	1	0	14	64
FS	1	0	1	0	1	0	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0	1	9	41
SA IK	0	1	1	1	1	0	1	0	0	1	1	1	1	0	1	1	1	0	0	0	1	0	13	59
SH	1	1	0	0	1	0	0	1	1	1	1	1	0	1	1	1	0	0	0	1	0	1	13	59
Y M	0	0	0	1	1	1	0	1	0	0	1	1	1	1	1	1	0	1	1	1	0	0	13	59
M R Y	1	1	1	0	1	0	0	0	0	1	0	1	1	0	0	1	1	1	0	0	1	1	12	55
YJ D	1	0	1	1	0	0	1	1	0	1	0	1	0	1	0	1	1	1	1	0	1	0	13	59
K K R	0	0	0	1	1	1	0	0	0	0	1	0	1	1	1	1	1	0	0	1	1	0	11	50
DP M D	1	1	0	0	1	0	0	0	1	1	0	1	0	1	1	0	1	1	1	1	0	1	13	59

D Y H	1	0	1	1	0	0	0	1	0	1	0	1	1	1	0	1	1	1	0	0	1	0	12	55	
Y H	0	0	1	1	0	0	1	1	0	1	1	0	1	0	0	0	0	1	0	1	0	1	10	45	
I S P	1	0	0	0	0	0	0	1	0	1	0	1	1	1	0	1	0	1	0	1	1	1	11	50	
T O T A L	1		1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	12		
	6	8	4	5	8	9	9	5	7	7	4	7	4	6	2	4	4	5	8	5	4	0	.1	25	55

Appendix 13

The Step Finding the Interval of Pre-Test

- a. Calculate of Interval Class (R)

$$\begin{aligned} R &= \text{Highest score} - \text{Lowest score} \\ &= 14 - 9 \\ &= 5 \end{aligned}$$

- b. Calculate of amount of interval class (K)

$$\begin{aligned} K &= 1 + 3.3 \log N \\ &= 1 + 3.3 \log 24 \\ &= 1 + 3.3 (1.380211) \\ &= 1 + 4.5546963 \\ &= 5.5546963 \\ &= 5 \end{aligned}$$

- c. Finding the wide of class interval (P)

$$P = \frac{R}{K}$$

$$P = \frac{5}{5}$$

$$P = 1$$

The Table of Score Frequency of Pre-Test Data

Number	Score (X)	F	FX
1.	9	1	9
2.	10	1	10
3.	11	5	55
4.	12	6	72
5.	13	9	117
6.	14	2	28
Total		24	291

Appendix 14**Finding Mean Score and Standard Deviation of Pre-Test****a. Mean Score**

$$\begin{aligned}\bar{X} &= \frac{\sum fx}{\sum f} \\ &= \frac{291}{24} \\ &= 12.125\end{aligned}$$

b. Standard Deviation

$$\begin{aligned}s^2 &= \frac{\sum Fi (Xi - \bar{X})^2}{(N-1)} \\ s^2 &= \frac{8.6664}{(24-1)} \\ s^2 &= \frac{8.6664}{23} \\ s^2 &= 0.3768 \\ S &= \sqrt{0.3768} \\ S &= 0.6138\end{aligned}$$

c. Finding Standard Deviation and Variance of Pre-Test

Class Interval	Fi	Xi	$(Xi - \bar{X})$	$(Xi - \bar{X})^2$	$Fi(Xi - \bar{X})^2$
9	1	4.5	-1.56	2.4436	2.4436
10	1	5	-1.06	1.1236	1.1236
11	5	5.5	-0.56	0.3136	1.568
12	6	6	-0.06	0.0036	0.0216
13	9	6.5	0.44	0.1936	1.7424
14	2	7	0.94	0.8836	1.7672
Total	25				8.6664

Appendix 15

Instrument of post test

No Sam ple	Score Items																						T O T A L	P E R C E N T A G E
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
FH	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0	1	1	18	96
MP	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	1	1	1	1	18	96
SN	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0	1	0	0	18	82
IS	1	1	1	1	1	0	1	1	1	1	0	0	0	1	0	1	1	1	1	0	1	0	16	58
AP	0	0	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	0	1	1	1	17	77
LS	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	0	1	0	18	82
SM	0	0	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	18	82
FJ	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0	1	0	17	77
ND	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0	1	0	17	77
NA	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	18	96
AS	1	0	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	18	82
IH	0	0	0	1	1	1	1	0	1	1	1	0	1	1	0	1	1	1	0	0	1	0	15	39
AA	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	29	01
FS	1	1	1	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	1	0	1	0	4	91
SAIK	0	0	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	18	82
SH	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	18	82

																				9	6			
YM	0	0	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	8
MR																								1
Y	1	1	1	0	1	1	1	1	0	1	1	1	1	1	0	1	1	0	0	0	1	0	0	5
YJ																								1
D	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0	1	1	1	1	0	1	0	0	6
KK																								1
R	0	0	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8
DP																								1
MD	1	0	1	0	1	1	1	1	0	1	1	1	1	1	0	1	1	1	0	1	1	1	1	7
DY																								1
H	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	0	8
YH																								1
	0	0	1	1	1	1	0	1	0	1	1	1	1	1	0	1	1	1	0	1	1	1	1	6
ISP																								1
	1	1	1	1	0	1	1	1	0	1	0	1	1	1	0	1	0	1	0	1	1	0	0	5
																								1
TO																								6
TA	1	1	2	1	2	2	1	2	1	2	2	2	2	2	2	2	2	2	1	1	2	1	1	9
L	7	4	3	7	2	2	9	3	2	1	0	2	1	0	5	3	3	1	4	3	4	1	6	7

Appendix 16**Finding the Interval of Post-Test**

- a. Calculate of Interval Class (R)

$$\begin{aligned} R &= \text{Highest score} - \text{Lowest score} \\ &= 20 - 9 \\ &= 11 \end{aligned}$$

- b. Calculate of amount of interval class (K)

$$\begin{aligned} K &= 1 + 3.3 \log N \\ &= 1 + 3.3 \log 24 \\ &= 1 + 3.3 (1.380211) \\ &= 1 + 4.5546963 \\ &= 5.5546963 \\ &= 5 \end{aligned}$$

- c. Finding the wide of class interval (P)

$$\begin{aligned} P &= \frac{R}{K} \\ P &= \frac{11}{5} \\ P &= 2.2 \\ P &= 2 \end{aligned}$$

The Table of Interval Frequency of Post –Test Data

No	Class Interval	fi	xi	Fi xi
1.	9 – 10	1	9.5	9.5
2.	11 - 12	0	11.5	0
3.	13 – 14	1	13.5	13.5
4.	15 – 16	5	15.5	223.5
5.	17 – 18	12	17.5	210
6.	19 – 20	5	19.5	97.5
	Total	24		554

Appendix 17**Finding Mean and Standard Deviation of Post-Test****a. Mean Score**

$$\begin{aligned}\bar{X} &= \frac{\sum f_i x_i}{\sum f_i} \\ &= \frac{554}{24} \\ &= 23.08\end{aligned}$$

b. Standard Deviation

$$\begin{aligned}s^2 &= \frac{\sum f_i (x_i - \bar{X})^2}{(n-1)} \\ s^2 &= \frac{1001.1936}{(24-1)} \\ s^2 &= \frac{1001.1936}{23} \\ s^2 &= 43.5301 \\ S &= \sqrt{43.5301} \\ S &= 6.5977\end{aligned}$$

c. Finding Standard Deviation and Variance of Post-Test

Class Interval	f_i	x_i	$(x_i - \bar{X})$	$(x - \bar{X})^2$	$f_i(x_i - \bar{X})^2$
9 – 10	1	9.5	-13.58	184.4164	184.4164
11 – 12	0	11.5	-11.58	134.0964	0
13 – 14	1	13.5	-9.58	91.7764	91.7764
15 – 16	5	15.5	-7.58	57.4564	287.282
17 – 18	12	17.5	-5.58	31.1364	373.6368
19 – 20	5	19.5	-3.58	12.8164	64.082
Total	24				1001.1936

Appendix 18

The Difference of Pre-Test and Post-Test

No	STUDENTS NAME	X1	X2
1	FH	59	86
2	MP	55	86
3	ST	50	82
4	IS	55	68
5	AP	59	77
6	LS	50	82
7	SM	55	82
8	FJ	59	77
9	ND	64	77
10	NA	59	86
11	AS	55	82
12	IH	50	59
13	AA	64	91
14	FS	41	41
15	SAIK	59	82
16	SH	59	86
17	YM	59	82
18	MRY	55	68
19	YJD	59	73
20	KKR	50	82
21	DPMD	59	77
22	DYH	55	82
23	YH	45	73
24	ISP	50	68
JUMLAH		1378	1927
AVERAGE		55	77
STANDARD dEVIATION		6.09	14.83

Note:

X1 = score of pre-test

X2 = score of post-test

Appendix 19

Appendix 20

The Calculation of T-Test and Hypothesis Verification

a. Score Pre-Test

Lowest score = 9

Highest = 14

Mean Score = 12.12

Sample n = 24

b. Score Post-Test

Lowest score = 9

Highest = 20

Mean Score = 16.96

Sample n = 24

c. T-Test

$$\begin{aligned}
 t &= \frac{Md}{\sqrt{\frac{\sum X^2 d}{n(n-1)}}} \\
 &= \frac{4.83}{\sqrt{\frac{77.33}{552}}} \\
 &= \frac{4.83}{\sqrt{0.140}} \\
 &= \frac{4.83}{0.374} \\
 &= 12.91
 \end{aligned}$$

Appendix 21

The Difference (d) of Students' Score of Pre-Test and Post-Test

No Respondent	Score of Post-Test (X_1)	Score of Pre-Test (X_2)	Difference (d) ($X_1 - X_2$)	$X_d = d - Md$	Difference Square (d^2)
1	19	13	6	1.17	1.3689
2	19	12	7	2.17	4.7089
3	18	11	7	2.17	4.7089
4	15	12	3	-1.83	3.3489
5	17	13	4	-0.83	0.6889
6	18	11	7	2.17	4.7089
7	18	12	6	1.17	1.3689
8	17	13	4	-0.83	0.6889
9	17	14	3	-1.83	3.3489
10	19	13	6	1.17	1.3689
11	18	12	6	1.17	1.3689
12	13	11	2	-2.83	8.0089
13	20	14	6	1.17	1.3689
14	9	9	0	-4.83	23.3289
15	18	13	5	0.17	0.0289
16	19	13	6	1.17	1.3689
17	18	13	5	0.17	0.0289
18	15	12	3	-1.83	3.3489
19	16	13	3	-1.83	3.3489
20	18	11	7	2.17	4.7089
21	17	13	4	-0.83	0.6889
22	18	12	6	1.17	1.3689
23	16	10	6	1.17	1.3689
24	15	11	4	-0.83	0.6889
Σ	407	291	116		77.3336

$$\begin{aligned}
 Md &= \frac{\Sigma d}{n} \\
 &= \frac{116}{24} \\
 &= 4.83
 \end{aligned}$$

CURRICULUM VITAE



Umar Udin was born on Molalahu, October 5 1993.

He is the first son of Rosni H. Yusuf and Udin

Ismail. He started his study in SD Impres Molalahu

and graduated in 2006. Then, in 2009 he finished

his education in SMP Negeri 2 Pulubala and

continued his study to SMK Negeri 1 Limboto, and

graduated in 2012. After graduated from SMK

Negeri 1 Limboto, he continued his study in English Educational Study Program, Faculty of Letters and Cultures, State University of Gorontalo.

During the time of his study, he followed some academic and non-academic activities as follows:

1. The participant of Pramuka Lomba tingkat V Gorontalo (2008)
2. The participant of Perkemahan Wirakarya Daerah Provinsi Gorontalo (2010)
3. The participant of Kemah Budaya (2010)
4. The participant of Jumbara PMR Kecamatan Limboto (2011)
5. The participant of Jumbara PMR Kabupaten Gorontalo (2011)
6. The participant of Jumbara PMR Provinsi Gorontalo (2011)
7. The participant of Perkemahan Saka Bakti Husada IV tingkat Nasional (2011)
8. The Participant of Masa Orientasi Mahasiswa Baru (2012)

9. The participant of International conference on Malay Language and Cultures (2013)
10. The participants of Cross Cultural Understanding (CCU) by English Department Students, Class of 2012 (2014)
11. The participant of Karawo Festival (2014)
12. The participants of Drama by English Department Students, Class of 2012 (2015)
13. The participants of English Olympic by English Department Students in 2013
14. The participants of English Championship by English Department Students in 2014
15. The participants of English Championship by English Department Students in 2015
16. The participants of International Students Conference by English Department Students Class of 2012 in 2015
17. PKL Program (Job Training Practice) in 2015
18. PPL-2 (Teaching Practice Program) in 2015
19. KKS Program (Kuliah Kerja Sibermas) in 2015

Committee Experiences

1. Committee of SMK Negeri 1 Limboto (2011)
2. Committee of Student Orientation SMK Negeri 1 Limboto (2011)
3. Chairmen committee of Scout organization of SMK Negeri 1 Limboto (2011)

4. Committee of Red Cross organization of SMK Negeri 1 Limboto (2011)
5. Committee of Student Orientation of SMK Negeri 1 Limboto (2012)
6. Committee of Job Training – English Department Student, Class of 2010 (2013)
7. Committee of Cross Cultural Understanding (CCU) by English Department Students, Class of 2012 (2014)
8. Committee of Cross Cultural Understanding (CCU) by English Department Students, Class of 2013 (2015)
9. Committee of Drama by English Department Students, Class of 2012 (2015)
10. Committee of International Students Conference by English Department Students Class of 2012 (2015)

Working Experience

1. Teacher of GENIUS Institute for English language courses (2014)
2. Agent of Prudential Pru Excellent Gorontalo PT. Prudential Life Assurance

Organization Experience

1. Member of Student Organization of SMP (2009)
2. Member of Scout Students Organization of SMP Negeri 2 Pulubala (2008)
3. Member of Scout organization of SMK Negeri 1 Limboto (2010)
4. The chairmen of Scout organization of SMK Negeri 1 Limboto (2011)
5. Member of Scout Students Organization of SMK Negeri 1 Limboto (2012)

6. Member of Student Organization of SMK Negeri 1 Limboto (2011)
7. Member of Student Organization of SMK Negeri 1 Limboto (2012)
8. Member of Student Union of English Department, Gorontalo State University (2014-2015)

Achievements

1. The scholarship of Improved academic achievement (PPA) (2014)
2. The scholarship of Improved academic achievement (PPA) (2015)
3. Student Entrepreneurship Program (PMW) of GSU (2015)