Appendix I

List of Experts

1. Dr. Rajendrasinh Jadeja
   Director,
   Shree H.M. Patel Institute,
   Of English Training and Research Institute,
   Vallabh Vidhyanagar.

2. Dr. Piyushbhai Joshi
   Associate Professor,
   Shree H.M. Patel Institute,
   Of English Training and Research Institute,
   Vallabh Vidhyanagar.

3. Dr. Mahendra Chotaliya
   Associate Professor,
   Department of Education,
   Sardar Patel University,
   Vallabh Vidhyanagar.

4. Dr. Sanjay Raval
   Principal,
   Higher Secondary School,
   Kada, Visanagar

5. Dr. Dilip Barad
   Associate Professor,
   Department of English,
   Bhavanagar University.

6. Dr. Atanu Bhattacharya,
   Associate Professor,
   H.M. Patel Institute
   of English Shree Training and Research Institute,
   Vallabh Vidhyanagar.

7. Dr. Hitesh Raviya
   Associate Professor,
Department of English,
Kutch University.

8. Dr. Vijay Sevak
College of Education,
Surat.
Appendix III

TEACHER’S COPY

Lesson 1. Railway announcement

Passengers are requested to pay attention in changes of train timings. Chhatrapati Shivaji Express no. 9717 will be delayed for 25 minutes. It will arrive at 12.35 p.m. and depart at 01.10 p.m. It will be arrived on platform no. 7 instead of platform no. 9. Sorry for the inconvenience.

Lesson 2. Time table changes

All the students are requested to pay attention in the changes of examination time table. Note down the changes.

Our examination is delayed for two days. It will start on 8th November to 11th Nov. ’09. First and second paper of English and Economics will be taken last respectively. The third paper of Logic remains first and Psychology remains second. The time will be 10.30 to 1.30 instead of 9.30 to 12.30.

Best of luck.

Lesson 3. New wonders in cameras

Here are new wonders in cameras. Sensor cameras are new tools which can sense heat waves, sound waves and other invisible waves. Heat cameras can sense the infra red rays given off by an object. Heat picture can show the hidden bruises
or about teeth which are alive and which are dead. Dr. Egerton’s camera called sound camera which used to find objects from the sea bed with the help of sound. In 1965 the Threasher, the submarine searched by this camera. Space cameras help to predict earthquake and volcano eruption. They can scan planets and send those pictures back to the Earth.

**Lesson 4. Direction**

Heena has visited Amul Dairy yesterday. First she entered from gate no. 2 and parked her car. Then she felt hungry so went to refreshment and thought to take rest. But she has no idea about guest house so she went to inquiry counter. After getting query she went to guest house. She took rest for 15 minutes and went to visit factory. At last she went to tea stall after visited factory.

**Lesson 5-In The Library**

**Student:** I want to return four books.

**Counter Clerk:** but two of these were due on Monday. You’re late by three days. I’m afraid you’ll have to pay the fine.

**Student:** Oh yes, I know that. But… I was sick and have not been able to come to college these four days. You condone the delay under special circumstances, don’t you? And my sickness is a special circumstance, isn’t it?
Counter Clerk: Yes, it is. But you should talk to the librarian. My duty is just to charge the fine if it is due according to the rules.

Student: Very well, I’ll see the librarian. Meanwhile, please issue me with these two books. Oh, wait a minute. I want another book too. Let me go to the racks and find out that one also.

Counter Clerk: Ok, I’ll wait and lend you all the three together.

Student: Here’s the book I wanted. Now please issue them.

Counter Clerk: Would you sign here, please? And here also?

Student: Oh, I want to point out something. In this book, one page is missing. It’s page 231. You can have a look.

Counter Clerk: My, somebody has torn it away! How callous! ….. I must stamp page 230 to indicate that page 231 has been torn out.

Student: Is this necessary?

Counter Clerk: Yes, very necessary. Otherwise this may be blamed on you or the next borrower after you.

Student: Thanks very much.

Counter Clerk: That’s all right.
Students’ copy

KADI SARVA VISHWAVIDYALAYA,

GANDHINAGAR

PRE TEST AND POST Test

PhD Topic

“TRYOUT OF AUDIO VISUAL AIDS TO IMPROVE LISTENING AND SPEAKING SKILLS IN ENGLISH AT POLYTECHNIC COLLEGES”

Guide: Dr. Jagdish Joshi

Researcher: Parmar Nita D.

Name of the College: -

Name of Student:-

Branch:- Roll no:- Date: __/__/___
Listening Test

Listen to the activities and give appropriate answers of the exercises.

All the exercises are compulsory. Total marks 25

Activity 1- Railway announcement

- Listen to an announcement and tick the appropriate answers: (5 marks)

1. The name of the train is Chhatrapati Jivaji / shivaji Express.
2. Number of the train is 1791 / 9717.
3. The actual arrival time of train is 12.10 / 2.45.
4. The departure time of train is 01.10pm / 1.10am.
5. The train will arrive on platform no 7 / 9.

Activity 2- Time table changes

- Listen to the Time table changes and tick right (✓) on appropriate answers: (5 marks)

1. The date of examination before changes is
   a. 8th Nov.       b. 6th Nov.       c. 7th Nov.
2. The last paper of examination is
3. Total days of examination held
   a. 3 days  b. 5 days  c. 4 days

4. Examination will start on
   a. 9.30       b. 10.30       c. 12.30

5. The last paper of examination is
   a. English  b. Economics  c. Logic

Activity 3- New wonders in cameras

• Listen to description about ‘New wonders in cameras’ and match ‘A’ with ‘B’:

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>i. Heat cameras</td>
<td>- predict earthquake</td>
</tr>
<tr>
<td>ii. Hidden bruise</td>
<td>- submarine</td>
</tr>
<tr>
<td>iii. Space cameras</td>
<td>- heat cameras</td>
</tr>
<tr>
<td>iv. Dr. Egerton</td>
<td>- sense infra red rays</td>
</tr>
<tr>
<td>v. Threasher</td>
<td>- sound cameras</td>
</tr>
</tbody>
</table>

(5 marks)
Activity 4- Direction

- Listen to a direction and give the numbers into map according to Heena’s move:  

(5 marks)

Activity 5- In The Library

- Listen to the conversation and tick mark on the right option:  

(5 marks)

1. The talk is between students and **counter clerk/ librarian**.
2. **Four/three** books returned by a student.
3. Student will pay fine for **three/two** books.
4. Page number **230/231** is missing from the book.
5. Student will pay fine to the **counter clerk/ librarian**.
Speaking Test

Students will speak on given topics.

All the topics are compulsory. Total Marks 25

Activity 1- Introduction

Students will speak on the given topic covering all the points are given below:

(Marks 5)

- About himself
- About study
- About favorite
- Liking \ disliking

Activity 2- Clue cards

Students will pick up any clue card and speak on that topic written in it:

(Marks 10)

1. Your favorite movie

   What is a name of movie?

   Who are actor and actress?
What is a theme of movie?
Why do you like it?

2. **An accident you face**
   Which accident you face?
   Which vehicles are involved?
   What happen during accident?

3. **Your favorite dish**
   How many dishes did you taste?
   Why do you like this dish?
   Which are ingredients?
   Do you know to cook this dish? How?

4. **Your visit**
   Which place have you visited?
   From where did you go to visit?
   With whom did you visit?
   What have you learn from the visit?
   How did your experience of visit?

5. **Experience of life**
   Which is your experience of your life?
   Is it good or bad? Why?
What have you learnt from the experience?

6. Your dream house

Which type of place will you select for built it?

How will you decorate it?

Which things will you keep in your house?

7. Atmosphere of your college

What is a name of your college?

Which facilities are available in your college?

How is atmosphere of the college?

Who is your bench partner?

Tell about discipline of college?

Activity 3- Picture Discription

Teacher will show a picture to the students and they will try to describe that picture:

(Marks 10)

- picture of a city,
- picture of a village
- picture of a forest
- picture of a railway station
- picture of a bus station
- picture of a park
- picture of a zoo
- picture of a school / college
- picture of a farm
- Picture of any festival ex. Diwali, Navratri, Makarsakranti, Christmas, etc.
- Picture of a national festival (15th August, 26th Jan. etc.)
Appendix IV

Lessons for the Experiment

Lesson 1

- Listen to the conversation and give answers of the questions: (lesson 1)

1. How many speakers?
2. Who is Bill’s friend?
3. Where does Mr. Bill live?
4. Who is Englishwoman?
5. Who are belonging to Manchester?
6. From where does Mary’s brother belong?
7. Where are Bill and Mary?

- Listen again the same conversation and improve your answers if found wrong:

Lesson 2

- Listen the speech on “Our National Flag” and fill in the blank with the answers given in the box:

<table>
<thead>
<tr>
<th>Saffron</th>
<th>bands</th>
<th>salute</th>
<th>progress</th>
<th>anthem</th>
</tr>
</thead>
<tbody>
<tr>
<td>sacrificed</td>
<td>glory</td>
<td>Fort</td>
<td>symbol</td>
<td>peace</td>
</tr>
</tbody>
</table>
On the Independence Day and the Republic Day, our national flag is unfurled on the Red __________ and on all the government offices and private buildings. We ___________ the flag and sing the national ______________. It reminds us of those who ___________ their lives for the freedom of our country. Our national flag is also called the Tricolour or the Tiranga. It has ___________ of three colours. The top band is ___________. This colour is a symbol of patriotism and sacrifice. The middle band is white. It is a symbol of ___________. The bottom band is green. It symbolizes prosperity. There is a blue coloured Ashoka Chakra in the centre of white band. It stands for ___________. Our national flag is a ___________ of our hopes and aspirations. It stands for national unity and ___________. We respect our national flag. We should proud of it.

Lesson 3

- Listen to the conversation and answer the questions: (lessons 2, 3)

1. Who came late in the studio?

2. Where is Bill’s sister?

3. What is Mary’s occupation?

4. What is Bill’s job?

5. What the things are on the table?

6. Where does Bill’s hat?

7. Where are Bill’s papers of the lessons?

8. What are the things used in this lesson? List out two of them.

- Listen again the same conversation and improve your answers, if found wrong:
Lesson 4

- Listen to the conversation and Fill in the blanks: (lesson 4, 5)

1. Yes, what have you in your hand? Oh, a ________________ of cigarettes.

2. In my pocket. I have a box of ______________, but no cigarette.

3. No, Bill one match for one cigarette. That’s fifty-______________, isn’t it?

4. Hallo, listeners. Today we’re not in the ________________.

5. It’s a picture of an old castle in ________________.

6. Oh, yes. What is the notice? It is not very ________________.

7. Thank you. Now I haven’t a piece of ________________.

- Listen again the same conversation and improve your answers if found wrong:

Lesson 5

- Listen to the dialogues and find out a person who says the sentences written below: (lesson 29)

1. “Well don’t forget this evening.”

2. “That will be fine. I say, look who is coming!”

3. “Scotland?”
4. “Lucky girl! Will you stay in Edinburgh?”

5. “Shall I have time to stop in Glasgow?”

6. “Well, I shall come to the station to see you off.”

- Listen again the same conversation and improve your answers if found wrong:

Lesson 6

- Listen to the conversation between Barbara and Harry and note down
  10 words which contain minimum five letters. Do not repeat a word:

  (lesson 1)

- Speak out 10 sentences using those same words:

Lesson 7

- Listen to the poem “You didn’t need to do it” and write down the repeated words from the poem:

  Boy: you didn’t need to do it,
  You had your chance and blew it.
  You’ll wander through this world all alone.
  You needn’t have broken my heart.

  Girl: you needn’t have believed me.
  My feelings have deceived me.
  I’ll wander through this world all alone.
  I ought to have known at the start.
Chorus:

For I can’t bear to see
Those tears in your eyes
Are killing me-
You didn’t need to do it.

Baby.
Oh you needn’t have said goodbye,
When you did, you know, something
Inside of me died-
You didn’t need to do it

Girl: you needn’t think about me,
You’ll get along without me.
I’ll wander through this world all alone,
You needn’t have taken my heart.

Boy: oh it doesn’t need to end now,
There’s still a chance to mend now.
We’ll wander through this world hand in hand.
Is there any reason to part?

Chorus:

For I can’t bear to see
Those tears in your eyes
Are killing me-
You didn’t need to do it.

Baby.

Oh you needn’t have said goodbye,

When you did, you know, something

Inside of me died-

You didn’t need to do it

Lesson 8

- Listen the poem “Your Bright Eyes” and fill in the blank in the poem:

It doesn’t seem so ________ ago,

You turned to me and you’re fine,

Hey Babe- I think you’re ________,

Let’s hang together for a ________.

And during that ________ steamy summer

Back in ________ - three,

We first lay together, girl,

Beneath that sycamore tree.

Your ________ eyes,

My; how they sparkled!

I hadn’t been so wild

Since I was a ________.

In that hot and steamy summer-

Your bright ________ taught me to smile. (Repeat)
In the morning and the evening
And all throughout the _______
Every ______________ for hour on hour
I liked holding you so near.
I don’t know why you went away.
Why, oh why, did you go?
It’s been so long since I ________ you, girl.
Time goes by so slow.

Your ____________ eyes, how they sparkled!
I hadn’t been so wild
Since I was a child.
In that hot and ___________ summer-
Your bright eyes taught me to smile. (repeat)

It doesn’t seem so ________ ago,
You turned to me and you said so slowly:
Hey Babe- I _____ you’re fine,
Let’s hang together for a time.

- Listen to the same poem again and improve your answers if found wrong:
Lesson 9

- Listen the speech on “Radio” and fill in the blank in the given paragraph:

Radio plays a vital role in education. The reason for using radio in education was the capacity of formal schools was not enough to accept all applications. People also separately lived in small ___________ and towns. Government did not have ___________ to found formal school in each village and town. The educators thought that radio could be used in ___________ to teach. Wireless radio was invented in ___________. After that the first patent for radio was obtained by Marconi in ___________ and then the first translate message was send to other place in ___________ 1901. Until 1910 radio broadcaster did not have a new regulations or rules for their services in ___________. For this reason, the Radio Act passed by Congress on August ___________, 1912 was the first act regarding interstate communication by radio including issuance and registration of licenses. St. Joseph’s College in Philadelphia in ___________ received the first license. After the first license, other schools began to apply for radio license. There is no doubt that mass media particularly radio and ___________ has an immense potential in distance education. They were until recently, the major and most widespread and popular forms of ___________ communication. It is unquestionable that both radio and television are likely to continue their domination in spite of technological developments in distance communication.

- Listen to the same speech again and improve your answers if found wrong:
Lesson 10

- Listen the poem “My garden” and fill in the blank in the poem:

I don’t have much of a place
But it’s ____________.
It doesn’t have hot water.
Or ____________.
It doesn’t have a red carpet
On the ____________,
But there is
A garden…….I’d like to show you

So you didn’t have ___________ in your garden
And I do have weeds in my garden,
But I’m rather ____________ with my garden.
Come on, come on, I’d like to show you.

I don’ have much of a place,
But it’s home
It doesn’t have ____________ water.
Or telephone.
It doesn’t have a _______ carpet

On the stairs,

But there is

A garden……..I’d like to show you

Did you have a ____________ tea rose

In your garden?

Did you watch the peace __________

In your garden?

Together lets ______________ the honeysuckle and …….

We’ll weave

Through the _____________

In my garden …… I’d like to show you.

- **Listen to the same poem again and improve your answers if found wrong:**

**Lesson 11**

- **Listen the poem “To be alone” and fill in the blank in the poem:**

  I was _____________ rather low,

  I was wondering if you’d

  Like to go

  To the ______________ with me today.
I was hoping
That you’d say- yes.
Oh! Yes, Emma. Yes, Emma. Yes, Emma, yes. (Repeat)

We were ______________ in the rain.
We were strolling down
A ______________ in Spain.
We were ______________ in the bath
Trying so hard not to laugh.

Oh! Yes, Emma. Yes, Emma. Yes, Emma, yes. (Repeat)

You were ______________ round your eyes,
I was really feeling so surprised.
You were ______________ outside my place
My smile just took up
All my __________ - yes.

Oh! Yes, Emma. Yes, Emma. Yes, Emma, yes. (Repeat)

Listen to the same poem again and improve your answers if found wrong:

Lesson 12

Listen to the conversation and fill the table below: (101 test 1)
Excess Baggage Declaration Certificate

AMOUNT PAID:

(1)__________

Given Name: George

Family Name: (2) ________________

Nationality: (3) ________________

Destination: (4) _________________________

Contact Number: (5) ________________

Declaration of contents:

Books

Cloths

(6) ________________

- Listen to the same conversation for second time and improve your answers if found wrong:

Lesson 13

- Listen to the conversation and fill in the blanks in the table:(IELTS 4 test 4)
### GOODBYE PARTY FOR JOHN

<table>
<thead>
<tr>
<th>Example: 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Answer</strong></td>
</tr>
<tr>
<td><strong>Date:</strong> 22\textsuperscript{nd} December</td>
</tr>
</tbody>
</table>

| **Venue:** 1. ________________________________ |

| **Invitations (Tony)** |
| Who to invite: |
| -- John and his wife |
| -- Director |
| -- the 2. ______________ |
| -- all the teachers |
| -- all the 3______________ |

| **Date for sending invitations:** 4 ______________ |

| **Present (Lisa)** |
| Collect money during the |
| 5. ______________ |

| **Suggested amount per person:** 6.£ ______________ |

| **Check prices for:** |
| -- CD players |
| -- 7.__________ |
| -- coffee maker |

| **Ask guests to bring:** |
| -- snacks |
| -- 8................. |
| -- 9................. |

| **Ask student representative to prepare a** 10........................ |

- Listen to the same conversation for second time and improve your answers if found wrong:
Lesson 14

(Students will watch a movie into two parts and made a note on that movie. They speak five minutes on that movie)

- Watch part I of movie “Kung Fu Panda” for 45 minutes and making a note on it.
- Describe the movie for five minutes which you have seen.

Lesson 15

- Watch part II of movie “Kung Fu Panda” for 45 minutes and making a note on it.
- Describe the movie for five minutes for five minutes which you have seen.

Lesson 16

(Students will divided into pairs and will speak about questions which will give them)

- Students will make questions and tell the information given on the wrappers.
Lesson 17

(Students will divided into groups and will speak on the picture which will be given them before five minutes)

- Look at the pictures and discuss into group. Each student will speak about the picture for minimum two minutes.
# Appendix V

## Lesson planning

<table>
<thead>
<tr>
<th>Date</th>
<th>Material</th>
<th>Skill/s</th>
<th>Teaching Aid/s</th>
<th>individual/pair/group work</th>
</tr>
</thead>
<tbody>
<tr>
<td>24-08-2011</td>
<td>Pre test</td>
<td>Listening</td>
<td>Tape recorder</td>
<td>Individual</td>
</tr>
<tr>
<td>25-08-2011</td>
<td>Pre test</td>
<td>Speaking</td>
<td>Pictures, and Cue card</td>
<td>Individual</td>
</tr>
<tr>
<td>26-08-2011</td>
<td>Conversation : “Keep Up Your English” (BBC)</td>
<td>Listening, speaking</td>
<td>CD, Computer</td>
<td>Pair</td>
</tr>
<tr>
<td>27-08-2011</td>
<td>Picture narration of natural scenery</td>
<td>Speaking</td>
<td>Pictures</td>
<td>Group</td>
</tr>
<tr>
<td>28-08-2011</td>
<td>Conversation: Getting on in English (BBC)</td>
<td>Listening, speaking</td>
<td>CD, Laptop</td>
<td>Pair</td>
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<tr>
<td>29-08-2011</td>
<td>Charts explanation /wrappers</td>
<td>Speaking</td>
<td>Handouts/ wrappers</td>
<td>Pair</td>
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<tr>
<td>31-08-2011</td>
<td>GD “Education- English Medium v/s Gujarati Medium”</td>
<td>Speaking</td>
<td>Black Board</td>
<td>Group</td>
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<tr>
<td>01-09-2011</td>
<td>poem “You didn’t need to do it” and “To be alone” (BBC)</td>
<td>Listening and speaking</td>
<td>CD, Laptop</td>
<td>Individual /pair</td>
</tr>
<tr>
<td>Date</td>
<td>Activity</td>
<td>Type</td>
<td>Material</td>
<td>Setting</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------</td>
<td>------------</td>
<td>-----------------</td>
<td>------------------</td>
</tr>
<tr>
<td>02-09-2011</td>
<td>Conversations (IELTS)</td>
<td>listening</td>
<td>Computer</td>
<td>Individual</td>
</tr>
<tr>
<td>03-09-2011</td>
<td>poem “Your Bright Eyes” and “My garden” (BBC)</td>
<td>Listening</td>
<td>CD, Laptop</td>
<td>Individual</td>
</tr>
<tr>
<td>04-09-2011</td>
<td>“Kung Fu Panda” movie half part</td>
<td>Listening</td>
<td>TV, CD</td>
<td>Individual / pair</td>
</tr>
<tr>
<td>05-09-2011</td>
<td>“Kung Fu Panda” movie half part</td>
<td>Listening</td>
<td>TV, CD</td>
<td>Individual / pair</td>
</tr>
<tr>
<td>07-09-2011</td>
<td>Conversation (BBC) “Keep Up Your English”</td>
<td>Listening</td>
<td>Laptop</td>
<td>Individual / Pair</td>
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<tr>
<td>08-09-2011</td>
<td>Post test</td>
<td>Listening</td>
<td>Tape recorder</td>
<td>Individual</td>
</tr>
<tr>
<td>09-09-2011</td>
<td>Post test</td>
<td>Speaking</td>
<td>Pictures, and Cue card</td>
<td>Individual</td>
</tr>
</tbody>
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## Appendix VII

### Result of Pre-test and Post-test

**EXPERIMENT WAS HELD IN ATMIYA INSTITUTE JUNAGADH DURING 24-08-2011 TO 09-09-2011.**

<table>
<thead>
<tr>
<th>SR. NO.</th>
<th>NAME OF THE STUDENTS</th>
<th>LISTENING SKILL</th>
<th>SPEAKING SKILL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>PRETEST</td>
<td>POSTTEST</td>
</tr>
<tr>
<td>1</td>
<td>RANK JAYKUMAR HARILAL</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>2</td>
<td>MANDANKA SHUBHAMKUMAR KANUBHAI</td>
<td>11</td>
<td>13</td>
</tr>
<tr>
<td>3</td>
<td>RATHOD NILESKUMAR SALAMSINGH</td>
<td>10</td>
<td>16</td>
</tr>
<tr>
<td>4</td>
<td>BHALIYA DINESHBHAI SARDULBHAI</td>
<td>14</td>
<td>23</td>
</tr>
<tr>
<td>5</td>
<td>KATHI PIYUSH DILIPBHAI</td>
<td>11</td>
<td>14</td>
</tr>
<tr>
<td>6</td>
<td>KALATHIYA PIYUSH AJJNBHAI</td>
<td>16</td>
<td>25</td>
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<td>7</td>
<td>SIDDHPURA SANTOSH SURESHBHAI</td>
<td>15</td>
<td>19</td>
</tr>
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<td>8</td>
<td>DAVE SHUBHAM HASMUKHBHAI</td>
<td>19</td>
<td>25</td>
</tr>
<tr>
<td>9</td>
<td>RAKHOLIYA VIVEK KUMAR RAJESHBHAI</td>
<td>6</td>
<td>6</td>
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<tr>
<td>10</td>
<td>BAGIYA DHAVAL MANSUKHBHAI</td>
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<td>19</td>
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<td>11</td>
<td>TILVA KISHAN NARANBHAI</td>
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<td>22</td>
</tr>
<tr>
<td>12</td>
<td>LAKHANI AKASHBHAI ASHOKBHAI</td>
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<td>12</td>
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<tr>
<td>13</td>
<td>GOYANI ROBIN BHARATBHAI</td>
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<td>13</td>
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<tr>
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Appendix VIII

Wrappers of different Products were used in the Experiment
Appendix IX

Pictures were used in the Experiment
EXPERIMENT CERTIFICATE

This is to certify that Parmar Nitaben Danabhai has done her experiment of PhD on “Tryout of Audio Visual Aids to Improve Listening and Speaking Skills in English at Polytechnic College” in our Diploma College, Atmiya Institute Junagadh, Junagadh.

She had done her work from 24/08/2011 to 09/09/2011 (total 15 days). Our lecturers were observed her during experiment. She had used our Language Lab during her experiment. She provided multiple ways to develop good combination of Audio Visual effect which helped our students to enhance their skill.

We wish her for bright future best of luck for her PhD work.

Principal
Atmiya Institute Junagadh