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Assessing the Tonality of Punjabi Language

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Abstract

The prime objective of this study is to explore whether Punjabi is a tonal language or not. Punjabi is one of the languages of Indo-Aryan family. Punjabi inherits the tonal characters from the Gurumukhi script. The tone in Punjabi can be marked with the High or rising tone, Low or falling tone or neutral. Punjabi tone represented by the production task and tone is usually recognized by stressed syllabus. This paper will use the data of 37words. It is analyzed that characters such as $\overline{9}$ (bh) with tone /p/, $\overline{4}$ (gh) with tone /k/, $\overline{4}$ (dh) with tone /t/, \forall (dh) with tone /t/ and \forall (Jh)with tone /tf/, changes the tone according to their position. J/ fiə/ placed after ੳ /u:/, ヵ/ə/, ゼ/i:/ vowels has weak sound or no sound as the first consonant sound is extend to the second consonant. (Adhak) it doubles the sound of letter. (Bindi) It serves to add a nasal sound. ° Tippee, it works as nasal sound.

1. INTRODUCTION

Punjabi language, which belongs to Indo-Aryan family, is widely spoken by the North Western India and Northeastern Pakistan. Punjabi is the 10th most spoken language in the world with speakers counted as 125 million approximately. The Gurumukhi is the script of Punjabi. Gurumukhi have 35 letters is unlike Greek and Roman alphabets, arranged as vowels first, then consonants (Gutturals, Palatals, Cerebrals, Dentals, and Labials) and semi-vowels. Previous research on tonal language says that 'there are five tonal consonants in Punjabi recognized by the position of the consonant' and as well as consider as empirical proof of the linguistic rules on Punjabi tones illustrated by Gill, H.S (1986). The Punjabi tone system has three levels of tone first high tone, secondly level tone and thirdly low tone. It is said that tone in Punjabi is not represented with any symbol in the Gurumukhi script.

- Punjabi have three subjoined consonants means belonging to the feet that is attached under the letter. \bigcirc \bigcirc \bigcirc / re fie ve/.
- There are 6 supplementary consonants ਸ਼ੋ /ʃə/ ਖ਼ੋ /xə/ ਗ਼ੋ /ɣə/ ਜ਼ੋ /zə/ ਫ਼ੋ /fə/ ਲ਼ੋ /[ə/. In supplementary consonants ਖ਼ੋ (ਖ਼), ਗ਼ੋ (ਗ), ਜ਼ੋ (ਜ), ਫ਼ੋ (ਫ਼ੋ), ਲ਼ੋ (ਲੋ) they are pronounced same except ਸ਼ੋ /ʃə/
- Nasal Consonants: ਙ /ŋə/ ਵ /ɲə/ ਣ /ŋə/ ਨ /n̞ə/ ਮ /mə/ other then this ਂ Bindi ੰ Tippi.
- In Punjabi we have three independent vowels (ੳ, ਅ, ੲ)
- In Punjabi we have 10 dependent vowels:

	Dependent	<u>Name</u>	Sound	<u>IPA</u>
	<u>Vowel</u>			
1.	Invisible	Mukta	ਅ(a)	/ə/
2.	ਾ	Kanna	ਆ(ā)	/a:/~/ä:/
3.	ি	Sihari	ਇ(i)	/1/
4.	ी	Bihari	ਈ(ī)	/i:/
5.	ं	Aunkar	ਉ(u)	/υ/
6.	ા	Dulainkar	ਊ(ū)	/u:/
7.	े	Lava	ਏ(e)	/e:/
8.	ै	Dulava	ਐ(ai)	/ɛː/~/əɪ/
9.	े	Hora	ਉ(ō)	/o:/
10	٠ ح	Kanaura	ਔ(au)	/จ:/~/əʊ/

Gurumukhi Alphabhets :

	Tenuis	Aspirates	Voiced Stops	Nasal
Gutturals	ਕ	ਖ	ਗ	ਘ
Palatals	ਚ	ਛ	ਜ	इ

Cerebrals	て	ਠ	ਡ	ਢ
Dentals	ਤ	ਥ	ਦ	प
Labials	ਪ	ਫ	ਬ	ਭ
Semi-Vowels	ਯ	ਰ	ਲ	ਵ

• (Adhak) it doubles the consonant before it appears.

1.1 Research Objectives

The objective for this research is to find the different tonal characters in Punjabi and Does that make language as tonal. The other prospect is to look in to the tone level of the words as per data of 37 words.

1.2 Research Questions

- Which letters in Punjabi work as tonal?
- Does Punjabi can be considering as Tonal Language?
- At what basis lexicon to be as tonal word?

4. FINDINGS AND ANALYSIS

Tone

Tone is the use of pitch in language to distinguish lexical or grammatical meaning-that is, to distinguish or to inflect words. (Wikipedia) To express information, emotion or to convey emphasis and to contrast something in verbal languages, the language uses the pitch. Any languages use tone to distinguish words or their inflections, comparable to vowels and the consonants of the language. According to Pike, in tonal language each syllable must carry at least one significant pitch unit.

In Punjabi, there are three types of tone: Low, High, and Neutral. For the low tone, tone is recognized by the voice below the normal pitch and rising back to the following syllable. For high tone, tone is high in the pitch and falls back to the following syllable.

From the data collected, it is analyzed that \overline{J} (ha), \overline{J} (gha), \overline{J} (jha), \overline{J} (dha) and \overline{J} (bha) at the initial position have low tone and high tone when placed in middle and final. The same letter conjucted with half \overline{J} (ha) like \overline{J} (gha), \overline{J} (jha), \overline{J} (dha), \overline{J} (dha) and \overline{J} (bha) have low tone at final position or middle and when it is placed at the beginning the tone of letter is neutral.

 \overline{J} (ha) when place after independent vowels ($\overline{\theta}$, $\overline{\mathcal{H}}$, $\overline{\mathcal{E}}$) then the sound of vowel is extended to next syllable. If half \overline{J} (ha) is at the end then the tone of the word is high. The other analysis is that Adhak $\tilde{}$ it puts the stress on syllable and doubles the sound of following syllable. \overline{J} when conjucted with $\tilde{}$ the syllable is stressed and have high tone.

HIGH TONE			LOW TONE		
Punjabi	English	Remark	Punjabi	English	Remark
Word	meaning		word	meaning	
<u>ਦੱਸ</u>	Tell	The initial pitch is	ਦਸ	Ten	
/^ <mark>də<u>s</u>sə/</mark>		high and stress is on ਦੋ	/dəsə/		
		/də/ and (Adhak) it			
		doubles the sound of			
		letter \mathcal{H} /s/ will			
		become /ss/			
ਨਾਂ	Name		ਨਾ	No	
/ n^ã : /		் (Bindi) It serves to	/ n a:/		
		add a nasal sound and			
		stress is on ã:			
ਕਾਰਲਾ	Hurry up	When ਾ is before ਹੋ	ਕਾਲ਼ਾ	Black	
/k^a:həla:/		then ਹ is tonal means	/ka:la:/		
		it is weak letter,			
		another fact is ਹ is			
		also tonal or weak			
		when it is place in			
		middle position			
		When ਾ is before ਹੋ			
<u>ਚਾਹ</u> /ਿਹੈ^a:ĥə/	Tea	then J is tonal or	<u>चा</u> /रि]a:/	Desire	
/tʃ^a:hə/		week character			
ਕੜ੍ਹੀ	Curry	Here stress is on ব	ਘੜੀ	Watch	It is studied
/^ <mark>kə</mark> ţĥi:/		and half J-subjoined	/kər^i:/		that ਘ in initial
		letter is follows ੀ /i:/			position

		so ਹੋ becomes so week			produces the
		and appears as silent.			sound of /k/
ਕੱਦ/	Height	The initial pitch is	ਕਦ	When	
^ <mark>kə</mark> ddə/		high and stress is on ਕੱ	/kədə/		
		/kə/ and (Adhak) it			
		doubles the sound of			
		letter 단 /dd/			
ਕਰ /^	Perform	In this word stress is	ਘਰ	Home	પા in initial
kərə/		on letter ਕ/kə/	/kərə/		position
					produces the
					sound of /k/
ਕੋੜ੍ਹਾ	Leper	/ko:/ and /a:/ are stress	ਘੋੜਾ	Horse	W in initial
/^ <mark>ko</mark> :rɦaː/		letters and the	/ko:ţ <mark>a:</mark> /		position
		subkoined letter half ਹ			produces the
		has no tone.			sound of /k/
					and Stress is
					on ^{¬T} /a:/
ਕੌਲ	Mix	ိ /əu/ it sounds as oo	ਕੋਲ	With	े /o:/ it gives
/kə^ulə/		and stress is on /k/	/ko:lə/		the sound of o
ਪੀ /p^ <u>i:</u> /	Drink	ी /ा:/ and is produced	ਪਿ /p <mark>ɪ</mark> /	Buzz	ਿ /ɪ/ and it is
		as i.			produced as
					ee.
ਪਾਰ	Across	Here, in this word	ਭਾਰ	Burden	ਭ /bh/ when
/ ^pa :rə/		stress is on 4/pa/	/pa:rə/		placed initial it
					sound as /p/, if
					it is placed I
					middle or final its sound as /b/
					ex. नीड
					_
	Thirty	The nitch and stress is	Tfl / 1 /	Daughte	/d͡ʒiːbʰə/
ਤੀਹ '^*: ° - '	Tillity	The pitch and stress is	यी /di:/		可/dh/ its
/^ <mark>t</mark> i:ĥə/		on /ti:/. When it /i:/ is		r	sound as /t/
		before \overline{J} then the			when placed
		sound of ी /i:/ is			initial and when placed in
		extended to second			middle or final
		syllable.			
					ਪ੍ਰਧਾਨ (Preisdent)
					/prədha:nə/
ਪੀੜ	Pain	The pitch goes high	ਭੀੜ	Crowd	ਭ /bh/ when
/^ <mark>pi:</mark> rə/		and stress is on /pi:/	/piːrə/		placed initial it
1			1		sound as /p/
ਤੇਰਾਂ	Thirteen	The stress is on /te/	ਤੇਰਾ	Your	The stress is
/^ <u>te</u> :rã:/		and /ã:/ i (Bindi) It	/te:ra:/		on /a:/

		serves to add a nasal sound			
ភ្ជុំ /^ <u>n</u> ũː/	Them	/n/ is a spoken with stress.	ਨੂੰਹ /pũ:ĥə/	Daughte r-in-law	When <code>j/u:/</code> comes before $\overline{J}/\hbar \rho$, the sound sound of first syllable is extended to second.
ਜਾਨ /^ <mark>dੌʒɑ</mark> ːਸ਼ੁə/	Spirit	The pitch in initial is high and stress is on H¹/d3a/ and ♂/n/ is a dental nasal sound	ਜਾਣ /d͡ʒɑːŋə /	Going	で /n/ retroflex nasal sound
ਜਾ /^dੰਤ <mark>a:</mark> /	Go	/a:/ is stress syllable.	ਜਾਂ /dੰ3ã:/	Or	i (Bindi) It serves to add a nasal sound
ਪਾਹ / ^pa:ĥə/	Mordant	ਾ /ɑː/ sound is extened to the ਹੈ / ਜਿə/	ਪਾ/ pa:/	Put	
ਬਚਾਅ /bət͡ʃ^ɑːə//	Escape	/a:/ sound is extended to /ə/	ਬੱਚਾ /bət͡ʃt͡ʃa :/	Child	ঁ (Adhak) it doubles the sound of letter ষ /b/ will become /bb/
ਭੋਰਾ /^ <mark>boo:ɾɑ:</mark> /	Basement	ੋ with ਭ makes ਭੋ and makes letter as stressed syllable with sound /boo/	ਬੋਰਾ/bo: ra:/	Gunnys ack	In this word stress is made on ot/a:/
ਗਲ੍ਹ /gə^ <mark>l</mark> fiə/	Cheek	The stress is put on 평	ਗੱਲ/gəl lə/	Talk	ं (Adhak) it doubles the sound of letter ਹੈ। /gə/ will become /gg/
ਅੱਖ /^əkkʰə/	Eye	ੱ (Adhak) it doubles the sound of letter ਅ /ə/ will become /əə/	\a:k _p ə\	Ask	
ਕੰਡਾ /kã^ <mark>d</mark> a:/	Thorn	o Tippee, it work as nasal sound. The pitch of final letter rises.	ਕੰਢਾ / kə̃dʰɑː /	Coast	
ਟਿੱਕੀ /^t̞ɪkkiː/	Bread	ੱ (Adhak) it doubles the sound of letter ਕ /k/ will become /kk/. The stress will be given on ਟਿੱ/ਿਪੁੱ/ and	ਟਿਕੀ/tੁık i:/	Kneely	The stress will be given on ੀ /i:/

		ੀ /i:/			
ਭਾਈ /	Brother	ਭ /bʰ/ the stressed	ਬਾਈ	Twenty	/i:/ is the
bha:i:/		syllable.	/ba:i:/	two	stressed
					syallable.
ਵੀਹ	Twenty	When 1/i:/ is before	ਵੀ	Also	
/^ <mark>vi:</mark> ĥə/		ਹ then the sound of ੀ	/vi:/		
		/i:/ is extended to			
3 2	D 1	second syllable.	f	E 4	TDI 4 1
ਪੀਤਾ	Drank	The pitch will be high at initial and stressed	ਪਿਤਾ	Father	The stressed
/^pi: <mark>t</mark> a: /		syllable is /ta:/	/ pɪt̪ ɑː/		syllable is /pɪ/
ਕੀ	What	/^i:/ the stressed	ਘੀ	Clarifie	પ્પ in initial
/k^i:/		syllable.	/k ^h i:/	d Butter	position
					produces the
					sound of /k/
ਪੋਲਾ	Hollow	The stress syllable is	ਭੋਲਾ	Innocent	ਭ /bʰoː/ when
/po:1^ a: /		/a:/	/po:la:/		it is place
					initial it
					produces the
ਭੂਰੀ	Brown/f/	d when subjected	ਬੁਰੀ	Bad /f/	sound of /p/ /i:/ is the
/^ <mark>bu</mark> :ri:/	DIOWII/I/	ਭ when subjoined	/buri:/	Daa / I/	stressed
/ UU.11 ./		with goes high and	/ Uull./		syllable.
		becomes stressed			,
		syllable.			
ਧਾਨ	Paddyrice	ਧ/dh/ its sound as /t/	ਤਾਨ	Tune	
/^ <mark>ta</mark> ːn̪ə/		when placed initial.	/t̪ɑːn̪ə		
		The stress syllable is /			
		ta:/ and pitch is high			
\	Dool	at initial.		W/: -1 1	
ਵੇਹੜਾ	Backyard	ਏ /e:/ followed by ਹ,	ਵੈੜਾ	Wicked	
/ <u>`s</u> geh:90^\		then J becomes silent.	/:מןופט/		
		The stressed syllable are /ve://ra:/ and the			
		pitch is high at initial.			
ਤੇਹ	Thirst	ਏ /e: / followed by ਹ,	ਤੇ / te: /	At	
/^te:hə/		then J becomes silent.	J / LC. /		
, ,		The pitch is high and			
		stress syllable / te:/			
1	I		1	l	1

ਢੋਣਾ	Carry	뒪 /t/ when placed	ਟੋਹਣਾ	Search	ਣਾ /na:/ is
/^ <mark>tho</mark> :na:/		initial it sound is	/toːɦə <mark>ŋ</mark>		stressed
		produced as 군/tə/.	a :/		syllable.
		The stress syllable is			
		on initial and pitch is			
		also high.			
ਪਾੜ੍ਹਾ /	Learner	The stressed syllable	ਪਾੜਾ /	Gap	
^pa:rha:/		is /pa:/ and /a:/ and	pa:ra:/		
		the pitch is high at			
		initial.			
ਪੂਰ	Batch	/pu:/ is produces with	ਪੁਰ /	Full	
/^ <mark>pu:</mark> rə/		the high pitch and is	purə /		
		stressed syllable.	_		
ਭੋ / <mark>b</mark> ho:/	To Plant	ਭ/bʰ/ when it is	ਬੋ	Smell	
		placed initial it	/bo:/		
		produces the sound of			
		/p/ . ੇ with ਭ makes			
		ਭੋ and makes letter as			
		stressed syllable with			
		sound /boo/			

3. CONCLUSION

It is observed that tone in Punjabi varies according to the position of consonant and in some cases it depends on vowel or following syllable like $\overline{J}/h/$. When placed after independent vowel, the tone is low or silent. The same rule is for $\overline{J}/h/$ half, the subjoined consonant. The Punjabi have tonal characters and it is considerable that more research can be done on the part of tonal language in Punjabi lexicon. The data collected show that Punjabi can be considered as tonal language and as pervious research says Punjabi has five tonal consonants but the findings of this study revealed six consonants and the independent vowels make the difference in consonants too.

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