

Problem 5 (20 points). Proto-Chamic is the theorised common ancestor of all the languages in the Chamic group within the Austronesian family. It was reconstructed by linguists by comparing its many present-day descendants, among which are Phan Rang Cham and Tsat.

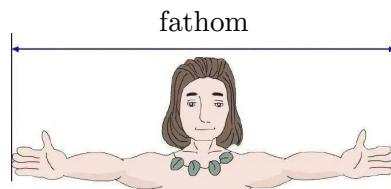
Here are some words in Proto-Chamic, Phan Rang Cham and Tsat, and their meanings:

Proto-Chamic	Phan Rang Cham	Tsat	meaning
*?ika:n	ikan	ka:n ³³	<i>fish</i>
*diki?	taki?	ki? ⁴²	<i>few</i>
*dilah	talàh	la ⁵⁵	<i>tongue</i>
*jala:n	calàn	la:n ¹¹	<i>road</i>
*lima	limi	ma ³³	<i>5</i>
*lanah	linih	na ⁵⁵	<i>pus</i>
*dua lapan	tàlipan	pa:n? ⁴²	<i>8</i>
*laba:t	lipà?	pha: ⁷⁴²	<i>to walk</i>
*bara	pirà	phia ¹¹	<i>shoulder</i>
*bahrow	piròw	phiə ¹¹	<i>new</i>
*bulow	pilòw	phiə ¹¹	<i>body hair</i>
*paley	paley	piai ³³	<i>village</i>
*masam	mitham	sa:n? ⁴²	<i>vinegar</i>
*basah	pathah	sa ⁵⁵	<i>wet</i>
*bəsey	pathey	sai ¹¹	<i>iron</i>
*mata	mita	ta ³³	<i>eye</i>
*rata:k	rata?	ta: ⁷²⁴	<i>beans</i>
*hatay	hatay	ta:i? ⁴²	<i>liver</i>
*paday	patay	tha:i? ⁴²	<i>paddy rice</i>
*padam	patàm	tha:n? ⁴²	<i>to extinguish</i>
*?iduj	itùng	thuŋ ¹¹	<i>nose</i>
*batuk	patu?	tu? ⁴²	<i>to cough</i>
*maray	miray	za:i? ⁴²	<i>to come</i>
*?urat	ura?	za? ²⁴	<i>tendon</i>
*rək	rə?	zə? ²⁴	<i>grass</i>
*bala	pilà	[see (a)]	<i>widowed</i>

- (a) No descendant of the Proto-Chamic word ***bala** can be found in the present-day Tsat language. However, what would it have become if it had survived?

(b) Fill in the blanks (1–18). The shaded cells do not need to be filled.

Proto-Chamic	Phan Rang Cham	Tsat	meaning
*kulit	kali?(1)	skin
*hitam	hatam(2)	black
*bubah	papäh(3)	mouth
*?ikat(4)(5)	to tie
*dəpa(6)(7)	fathom
*matay(8)(9)	to die
*dalam(10)(11)	inside
*labuh(12)(13)	to fall down
*bula:n(14)(15)	moon
	pala(16)	to plant
	tapüh(17)	to ransom
	tata(18)	chest



⚠ Phan Rang Cham (or Eastern Cham) is spoken by approx. 73,000 people in south-central Vietnam. Tsat is spoken by approx. 4,500 people in the city of Sanya, Hainan Province, China.

All words in Proto-Chamic are marked with an asterisk (*), indicating that the word is reconstructed and not attested.

ph = aspirated *p*; **th** = aspirated *t*. **c** ≈ *ch* in *church*. **j** ≈ *j* in *judge*. **ñ** ≈ *ny* in *canyon*. **ng** (Phan Rang Cham) = **ŋ** (Tsat) = *ng* in *hang*. **y** = *y* in *you*. **ʔ** is a consonant (known as the glottal stop). **i** = *oo* in *goose* but with the lips unrounded. **a** = *a* in *comma*.

The mark : indicates that the vowel is long. The mark ` indicates low tone (Phan Rang Cham). The marks **55**, **42**, **33**, **24** and **11** indicate high, falling, middle, rising, and low tone, respectively (Tsat).

Knowledge of any Austronesian language not belonging to the Chamic group is not relevant for solving this problem.

—Tung-Le Pan

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Good luck!

en(B)

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Questionnaire

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Which problem did you like best?

Which problem did you find hardest?

Which problem did you find easiest?