

zvr̄csis̄bm̄ompum\ pum;oȳav̄m̄csuf
py, †

pmwr̄t uſ

þpmwr̄tonf zvr̄csis̄bm̄ompum\ pum;oȳav̄m̄wiſy xmaom pmwr̄
wp̄pm̄szp̄gonf av̄m̄bm̄on&yé, ſy, ſn̄ jref̄pm̄m̄aye, ſy, ſy bm̄ompum
av̄m̄r̄le, ſy, ſyif jzp̄gonf zvr̄csis̄w̄l̄&iſomw̄l̄ tajym̄pumull tav̄m̄ch
e, ſy, ftjzp̄bowf ſw̄l̄ bm̄ompumc̄ſuyf av̄m̄monen̄pep̄sm̄jih av̄m̄
wiſyxm̄gonf þpmwr̄tonf zvr̄csis̄bm̄ompum\ pum;oȳav̄m̄azm̄xkw̄ef
&n&G ſ a;&om̄chom pm̄wrfzp̄gonf x̄b̄l̄azm̄xkw̄wiſyjciſjihzv̄r̄csis̄bm̄
pum\ pum;oȳav̄m̄ll̄t̄m̄ull oſ̄l̄t̄n̄jzp̄ly o'gazm̄xkw̄l̄ly taxmuſt uſzp̄ap
El̄ygonf

aom̄suſumv̄l̄ - oſ̄l̄? Aſſoſ̄l̄? o&oſ̄l̄? oP̄ȳl̄

ed geſ

zvr̄csis̄bm̄ompumonf ciſw̄l̄&iſomr̄ſEG wiſygoſam zvr̄csis̄v̄r̄ſm̄
ajymq̄bn̄bm̄ompumjzp̄gonf ciſw̄l̄&iſomr̄monf aex̄l̄&mt&yé'ouſl̄wn̄f
r̄ſEG þl̄m̄uſȳl̄oubl̄ ajymq̄bn̄bm̄ompumr̄vn̄ ūȳm̄monf þpmwr̄tonf
ciſr̄ſEG ūl̄v̄p̄b̄k̄z̄p̄bam zvr̄csis̄v̄r̄ſw̄l̄ȳm̄q̄bn̄zvr̄csis̄bm̄ompum\ pum;oȳ
zyl̄ullazm̄xkw̄wiſyv̄l̄om &n&G ſuſjihav̄m̄wiſyxm̄aom pm̄wrfwp̄pm̄if jzp̄yg
onf av̄m̄m̄w̄ef uſ ſw̄l̄uſſq̄iſi zvr̄csis̄v̄r̄ſw̄l̄ pum;oȳw̄q̄l̄t̄m̄ull
tolb̄ſum pep̄wurſw̄l̄wiſjihav̄m̄ygonf x̄v̄l̄v̄m̄csufm̄ull pum;oȳ
zyl̄axm̄jzp̄bam oſ̄l̄ſm̄? oP̄ȳl̄t̄m̄[ſ tȳl̄(2)ȳſc̄umwiſyxm̄gonf

1/ zvr̄ſl̄l̄ajrrsuEſſiyi ſwn̄bae&m̄Eſ hor̄t uſ

zvr̄ſl̄l̄bn̄ ciſjyn̄e, ſajrm̄uſȳl̄w̄l̄ ſwn̄ȳl̄ ſaſl̄ouw̄f uav;Hl̄le, ſ
taem̄buſw̄f r̄l̄r̄jyn̄e, (t̄Ēl̄ Ēl̄)? awm̄buſw̄f [mcgHl̄le, Eſh ajrm̄ubuf
w̄f w̄w̄t̄l̄le, ſw̄l̄e, ſt̄l̄v̄cſixph̄v̄ſuf ſȳl̄bn̄ ſajrm̄uſv̄w̄l̄g 22' D&D50r̄ep̄ſ23
'D&D30r̄ep̄t̄l̄m̄? ſaſl̄av̄m̄iſv̄l̄g 93' D&D20 r̄ep̄ſ94 'D&D10r̄ep̄l̄m̄w̄f ſwn̄ȳl̄
onf

ciſw̄l̄&iſomw̄l̄bn̄ jref̄Ēl̄l̄v̄f r̄l̄v̄iſaex̄l̄uaom jref̄m̄v̄l̄&iſom
r̄ſEG þl̄v̄f yḡiſbn̄h̄ſEG þl̄v̄p̄þk̄jzp̄gonf ciſr̄ſEG þl̄m̄onf at' (1)&mp̄ceſumv̄

* a'guw̄m̄ w̄l̄uſygaru? jref̄pm̄k̄me? uſȳl̄wm̄w̄uſl̄(rĒl̄v̄;)/

rsñwlf ykñ ppñlf? riñwlyi? rñlp? 'y, istpñom jrefnynf a'otEñjymü
aexñtñlñmñf orñfrñvñrñsñt & oñlonñ at'ñ8)∓keñwñf ovñowþpEñh
{&mñwþpñqñm t&yñ cñfwnñf&iñomñ trsnñtjym aexñtñlñ ojih xlt&yñll
cñfwnñfa' oñ [kac:qñlñonñ aemufñf wñwñyn?, bñfynñrñseetñbñkñlñwyñm
0iñ&muñwñlñtñtñ cñfrñEG þkñm tlyþlñtñonñ uav:e, lñ &mñtñlñ e, lñ jrpñomjrpñ
rPþjrpEñh vñtñtñsausmñh' orñmñlñ cñfwnñfe, fñs cñfrñEG þkñmñf tlyþkñm
uñm ajymñfa&ñtajccæxñtñlñonñ ajymñfa&ñtajccs aexñtñlñonñ cñfrñEG f
quñsñEñhtjcmxyñlñ&muñlñmaom cñfrñEG fquñsñrñScñfrñEG fquñsñ yñrñmñvñch
onñ aexñ&mt&yñ' ouñrlwnñf vnñ cñfrñEG þkñm uñymñvñclñonñ

csifjynē, fajrmuſyſü aexſħom csifvrlwlf wħwetsiſ? zvr̄csis? [mcg
csifponſziſvnlfaumiſ? csifjynē, fawmiſyſü aexſħom csifvrlwlf riſwytsiſ?
rwlybtiſ? yvuðciſ ponjzilvnlfaumiſ? ajrjeyb' owsif aexſħomcsifull tħaliſiſ
[lvnlaumiſ vħiſrsmuſyvnlboni riegħ piktvlif ajymqlohom bmonopumrsi
vnif ulyvnlboni rsuferhiu acwiſ zvr̄csiswlf & iforrmonti zvr̄fliywdeſ
usia' owsif aexſħu lydt rsmpli zvr̄fbmonopumul ajymqlooni xlv̄r̄csis
riegħ piktvlif -

- 1/ pðrʃtSEĞ þk
 - 2/ avfieʃtʃt(vlzl)rtSEĞ þk
 - 3/ Zma[miʃtSEĞ þk
 - 4/ oLupþeʃtSEĞ þk
 - 5/ ZmnyʃtSEĞ þk
 - 6/ cipðtSEĞ þk
 - 7/ aigeʃtSEĞ þk
 - 8/ [ðnvfɪtSEĞ þk
 - 9/ vþborʃtSEĞ þk
 - 10/ oaygiʃtSEĞ þk
 - 11/ vliʃa[mɪtSEĞ þk

[First] SEG phygiſ(11)pkvallumiſoolygonſ x(11)pkvſf p[er]SEG phravſefust(vi2)
rsSEG p[er]shZma[mi]rSEG pkvibni zvrſciſbmopumulltibmopumtjzpſajymqH
Muonſ userSEG pkvibni rsSEG p[er]vluſ a' oE&bmopumrsmuſ ajymqHnyd
zvrſpumullnſ emvnſwwiupſMuonſ oolygonſ¹

¹ cifor 1/15/2001 9- 15/

2/ pum;otly[bnf

bmonpumwpfc (ol[w) wpfcxuylombmonpumrsull avlvmmwif bmonA'en? o'áA'enfrmjizihavlvEfbnf avlvmmwif tqif avlvmaom enfpefrsm½gonf pumotly[bnf bmonpumun o'áA'enfjizih avlvmaom ynm&yfzpfyonf pumotly[tajccpumotly[lefwl ½gonf pumotly[tajccpumotly[lefwl - olifESDPÖlyzpbnf olifsonf pumotly[tqif wif tqifveft & terifqitqifwif t&G fymPtmjizih tao;i, fkl tpwftyif jzpbnf 0Pöbnf pumotly[tqifwif tqifveft & tjiqll tqifwif t&G fymP tmjizih tluqitpwftyifjzpbnf pumotly[tqifwif olifxuf ethom? ao;i, f aomtqifwif 0Pökujsrihom? BuBaomtqifwif ½fzg² bpmwrswif zvr̄ csi bmonpum\ pumotly[pumotly[lefwl oliffrsm? 0Pösm[l tyif(2) yif clum teif tjiqll tao;rStBuBtqifwif wifjxmygonf

3/ zvr̄csisfbmonpum\pum;otly[avlvmsuf

zvr̄csisfbmonpum\pumotly[avlvmmwif oliffrsmESh 0Pölysm[k tyifEpyifscumavlvwifyygrnif

3? 1/ oliffrsm;

olif[bnbmonpumwpfc tao;qlltpwftyifjzpnyb monpum½pumvif wpfifEShwpfifluymatmifcjmEhom toltpwftyifjzpbnf olifESlywbuif bmonpumwpfcitwif½ao;i, hom toltpwftyif uav;rsmonf (1) o'áA't & qifwifvifwif½nf (2)jzpEif&m e, fcmrlvnif½fnqifif, if toHtpwftyifuav;rsif tolfbmpk toltpita0;onf olifjzpbnf [b'áA'ynmiffrsm zifqibwfifwiflunif urifay:½bmonpumwifü Asnfolif? o&olif[l Efrif½bnf olifpif zvr̄csisfbmonpum\ oliffrsmuifvifm wifvif Asnfolif? o&olif[l Epyifscumavlvwifyygrnif

3? 1? 1/ Asnfoliffrsm;

zvr̄csisfbmonpumwif vifciifAsnf (16)vifEShAsnfEifvifwif(14)vifEShovif wif(3)vif pþhygif Asnfolif tvif(33)½fumif awifjygonf
vifciifAsnf (16)viffrsm

² xEifriiOP 1996? 154 - 155/
³, if? 156/

a&:x

b	bf	/ b /
c	uf	/ tʂ /
d	'f	/ d /
f	zʃ	/ ph /
h	[f	/ h /
k	uf	/ k /
l	vl	/ l /
m	rf	/ m /
n	ef	/ n /
p	yf	/ p /
r	&f	/ r /
s	pf	/ s /
t	of	/ T /
t̪	wf	/ t /
v	of	/ w /
z	Zf	/ z /

wljzpfyonf vlwAnftjzp**a&:x**

ng	if	/ N /
kh	cf	/ kh /
ph	zf	/ ph /
th	xf	/ th /
ch	cs	/ tʂh /
lh	vb	/ hl /
mh	rs	/ hm /
nh	E&	/ hn /
th	ob	/ D /
rh	&[f	/ rh /

tokuf

b	bf	/ b /
c	uf	/ tʂ /
d	'f	/ d /
f	zʃ	/ ph /
h	[f	/ h /
k	uf	/ k /
l	vl	/ l /
m	rf	/ m /
n	ef	/ n /
p	yf	/ p /
r	&f	/ r /
s	pf	/ s /
t	of	/ T /
t̪	wf	/ t /
v	of	/ w /
z	Zf	/ z /

tokuf

hl	[hf]	/ hl /
hm	[h̚f]	/ hm /
hn	[ɛf]	/ hn /
hr	[ɛ&f]	/ hr /
ngh	i h	/ Nh /
thl	o hf	/ Dl /
hng	i ʂ	/ hN /

AsnfokvHwif(3)vHzpif Asnfwlygifs (17)vH Asnfpphygifs (33)vHagonif

zvr̥csis̥bmonpumw̥s̥ g / g / oP̥ j / dʒ / oEsh y / j / oHm̥ raw&ay/
 oHm̥ zvr̥csis̥w̥l̥f̥&iſom̥w̥bns̥ jrefnEif̥hv̥s̥ r̥v̥iſaex̥Muom w̥l̥f̥&iſom̥
 rs̥njzp̥s̥ jrefnw̥llac:a0:aom̥trn̥f̥mrw̥llw̥l̥f̥tohv̥s̥ b̥l̥onit̥cgw̥rl̥t̥oHyK
 onf̥ullaw̥l̥on̥s̥ a½s̥u cb̥l̥ll / q / v̥l̥c̥s̥taejzih t̥oHyK a:&om̥l̥uNyD aemusy̥s̥
 w̥s̥ /kh / v̥l̥w̥taejzit̥oHyK a:&om̥l̥uonf̥ullw̥l̥on̥s̥ cb̥l̥ll / q / v̥l̥c̥s̥
 t̥aejzib̥l̥v̥d̥s̥ v̥l̥c̥s̥(17)v̥l̥zpNyD Aṣ̥iw̥(16)v̥l̥om̥ ½l̥n̥jzp̥bns̥

**zvrſciſbmopumonſ jrefbmopumublyif AſnſwſjzpEſ&m e, faj
tueſtowſbndfull aw&onſ b / b /? c / tç /? ch / tçh /? d / d /? f / ph /? g / g /?
hl / hl /? hm / hm /? hn / hn /? hng / hn /? hr / hr /? j / dʒ /? kh(q) / kh /? ph
/ ph /? s / s /? th / ð /? thl / ðl /? t / t /? th / th /? v / w /? y / j /? z / z / Aſnſ (22)
vſlonſ tpAſnſ tjpſbom tolyEſNyD tqaſnſae&mü Oiſa&muſjzpEſbubllh / lh /?
mh / mh /? nh / nh /? ng / ɳ /? ngh / ɳh /? rh / rh / Aſnſ (6) vſlonſ tqaſnſ
tjpſbom tolyEſNyD tpAſnſae&mü Oiſa&muſjzpEſyg/ ueAſnſrſmijzpſbom h / h / ?
/ k /? l / 1 /? m / m /? n / n /? p / p /? r / r /? t / θ / Aſnſ (8) vſlonſ tpAſnſEſhtqſ
AſnſEſbae&mü vſlloſiſa&muſ tolyEſlaMuniſ oſayonſ**

3? 1? 1/ O&O Bifrm;

**zvrſciſbmonpumwſ / a, aw, e, i, o, u / [h̄om o&oeſbel(6)v̄lultajcc̄
o&oeſbelſm yſt, bnfūllawv̄ygonſ**

a&;xH	tokuf
a	tm / ā /
aa	tm̄ / `a /
aw	atm / ɔ /
e	t, f / ɛ /

ee	tʃ	/ ^ ε /
i	tD	/ ̄ i /
ii	tD	/ ^ i /
o	tH	/ ̄ o /
u	tl	/ ̄ u /
uu	tl	/ u /

o&oebe(10)vHEshEShrMvnDuf a / @ / wpfvH pphygiſ o&oebe(11)vH 1/bn/
o&wlsaygiſ yſ, b̄mjcisoni tohtmjzilunlvſi Eſboll[wf wpbllvnſulbm
1/bnatmjqbſiſ jpfonſ xllumih o&w[qbſiſxuf o&oebe[k qbſiſu yſ
oiſvſayrnſ

**xtwlo&rwEþivwſ vnf o&wfſm zefwDtolyuonfullaw&onſ
xiſwſm**

a&:xH	tokuf	
ai	tmtqtl,)	/ ai /
awi	atmtqatm,)	/ oi /
au	tmtl (atmid)	/ au /
ei	t, ftD(t, f,)	/ ei /
eu	t, ftl (t, D)	/ eu /
ia	titm (tD)	/ iə /
io	tDtH (tD,)	/ io /
iu	tItl (tD)	/ iu /
oi	tHtD (tD,)	/ oi /
ua	tItm (tD)	/ uə /
ui	tHtD (tD)	/ ui /

O&ESfWw\$11)YHESfO&OIVW\$

a&:x	tokuf	
iai	tłtmtłtłtł	/ iai /
iau	tłtmtłtłtłmł	/ iau /
uai	tłtmtłtłtł	/ uai /

[r o&w(3)vlyf, Itolyf] o&wAygiſ (14)vH ½Amuſ oAygonſ

3? 2/ 0P^öly^h;

vlwlbnf ajym^hontalumif&mul t"y^h, emvnE^h&ef bmonpumw^h
 zefw^h&mu emjzi^havmu^hontohv;rs^hulze^hajymq^hlunon^h x^hto^h0P^ö k
 ows^hjc i^h jzp^hbnf bmonpumul c^hrs^hp^hjzm^h avlv^haom to^h lpf rs^hw^h
 0P^öbnf xljcm^haomt oh^h lpfz^hbnf 0P^öly^hbu^h o&ol^h wpl^hwnf ol^h kw^h
 AsnfE^hlo&ol^hfw^h wpy^hx^hmaom pum^ho^htp^hfty^hwpck ol^h kw^h tp^hfty^hrs^hul
 ac:qlbnf kbmona' ynm^hrs^hu z^hlqlbw^hsw^hclunon^h bmonpumwpck pum
 o^hly^havlv^hrnq^hl^h x^hbmonpum\ 0P^öly^havlv^hrnf jzp^hbnf zvr^hcs^h
 bmonpum\ 0P^öly^hspumot^hpnfy^h(4)r^h 1/ b^hnu^haw^hly^hgon^h x^hsw^h -

1/ o&wp^hlwnfjzi^hl^hpn^hao^h0P^öly^h(ovo syllable pattem)

2/ AsnfE^hho& aygi^hipy^hl^hpn^hao^h0P^öly^h(cvo syllable pattem)

3/ o&E^hAsnf aygi^hipy^hl^hpn^hao^h0P^öly^h(ovc syllable pattem)

4/ Asnf? o&? Asnf aygi^hipy^hl^hpn^hao^h0P^öly^h(cvc syllable pattem)

w^hl^hzp^hly^hgon^h

3? 2? 1/ o&wp^hlwnfjzi^hl^hpn^hfx^hmaom0P^öly^h

zvr^hcs^hbmonpumw^h0P^ö tpaemE^ht q^hae&mw^hif Asnfryg0i^h t v^h
 jzp^heonh o&wp^hlwnfjzi^hl^hpn^hfx^hmaom tz^hly^hl^hly^hgon^h tz^hly^hl^hpn^hul
 oau^hw^hji^h&v^hif Asnf (consonant)u^h(c) [kvnfaumi^h? o&(vowel)u^h(v) [kvnfaumi^h?
 Asnfrygaom t v^hae&mul (o) [kvnfaumi^h ows^hw^h jyq^hly^hgon^h x^hMuni^h
 o&wp^hlwnfjzi^hl^hpn^hfx^hmaomtz^hly^hl^h (ovo syllable pattem) [hc:q^hly^hgon^h
 zvr^hcs^hbmonpum^h o&wp^hlwnfjzi^hl^hpn^hfx^hmaomtz^hly^hl^hu^hom'ujy&v^h

a&x ^h	to ^h k ^h uf	t"y ^h , f
a	t ^h / ā /	o ^h
i	t ^h /i/	u ^h l ^h aw ^h
au	t ^h ok / au' /	at ^h mon ^h
ei	t ^h , f, D / e ī /	p ^h mon ^h
ui	t ^h , (t ^h) / ui /	ac ^h
awau	at ^h ft ^h ok / əau' /	pumar;/
awee	at ^h ft ^h / əe /	olqe;/
ee	t ^h / ε /	t ^h l ^h ubn ^h t ^h mbaE ^h bn ^h
uai	t ^h f / uaī/	n ^h lon ^h Ef ^h on ^h
uaō	t ^h t ^h / uaō /	, ll ^h ll ^h
ui	t ^h / uī /	w ^h bn ^h w ^h ll ^h bn ^h

3? 2? 2/ အနိဒါနီ ၁၂ အယိ ဖျော်ပြန်ချမှုအောင်။

zvr̥csr̥bmonpumwif 0PÖ tpaemwif AṣṇygoiNyD tqñae&mwif Aṣṇtryg
0ibJ tvñjzpñeonhAṣṇ? ၁၂ အယိ ဖျော်ပြန်ချမှုအောင်။
၁၃ အယိ ဖျော်ပြန်ချမှုအောင်။ (cvo syllable pattem) [kac:qEi] zvr̥
csr̥bmonpumwif Aṣṇ? ၁၄ အယိ ဖျော်ပြန်ချမှုအောင်။

a&x	tokñf	t"yñ, f
be	b, f / bē /	y
ci	uñf / tç /	rñapñ
caw	ausñ / tç /	Eñ/
don	'ñef / dōn /	(wñm)cifonf
fei	zef / pheñ /	jrm? vñ
hawi	a[mtD / hñi /	vñg bñl vuñgonf
kai	uñftD / kai' /	wubñf
la	vñ / lā /	, bñf
lai	vñftD / lai' /	tv, A[ñ
mai	rñftD / mañi' /	zñbñ
to	oñ / ðō /	&ewbñf
thaw	aofñ / ðō /	touñ ZD/
va	Añ / bā /	jrpñ acññf/
zia	Zññ / ziñ /	[eñ [eññ trñt, m

3? 2? 3/ ၁၂ အယိ ဖျော်ပြန်ချမှုအောင်။

zvr̥csr̥bmonpumwif 0PÖ tpaemwif AṣṇtrygoiibJ tvñjzpñeNyD tqñ
ae&mwif Aṣṇygoiñaygi ဖျော်မြန်နှံ? ၁၃ အယိ ဖျော်ပြန်ချမှုအောင်။
၁၄ အယိ ဖျော်ပြန်ချမှုအောင်။ (ovc syllable pattem) [kac:qEi]
ygonf zvr̥csr̥bmonpumwif ၁၅ အယိ ဖျော်ပြန်ချမှုအောင်။

a&x	tokñf	t"yñ, f
ah	tññ / a' /	ü? rññ wññ 0, f
al	tññf / āl /	iñbñf
aih	tñññ / aiññ /	*Pñyñonf
ar	tññ-&f / ār /	Mñuf
an	tññ-ef / ān /	owl owl? owlñf/
awk	atññ-uf / õk /	Nñ rñ Nññonf

awh	am	/ɔ'/	oamwɔn
em	t, ff	/ɛm /	vutbn
ek	t, f<u>f</u>	/ɛk /	cɔson qəfɔson
euh	t, Dk	/eu' /	vɛʃon
in	tθef	/in /	aomubn
it	tθwf	/i't /	tybn
irh	tθ &U	/ir' /	a&yɛ? pʃa&xu
ol	tθvif	/ōl /	vθ bnf
op	atm-yf	/ōp /	0ybn(00ybn)
or	tθ&f	/ōr /	vnlyif
orh	atm-&U	/ōr' /	vnlyifʃaqbn
uak	tθt-uf	/uək /	ybni omon
uh	tθ	/u' /	Eybn
uk	tθuf	/ūk /	tlyybn tlyybn
um	tθrf	/ūm /	1bn aeon

3? 2? 4/ A**n**? O& aygi i**pyz****l****bn****f****xm****aom**0P**ü****ll**

zvr**ʃ****sr****f****b****mon****pum****wif** 0P**ü****t****pae**&**ɛsh** t**q****nae**&**mw****lf** A**n****f****g****o****ñ****d** A**n**?
 O&? A**n**? aygi i**pyz****l****bn****f****xm****aom** t**z****y****ll****ll** aw**l****lygon** A**n**? O&? A**n**?aygi i**py**
 z*lbn**f**xm**aom**t**z**y**ll**ll*(cvc syllable pattern) [kac:**q****ɛ****l****lygon** zvr**ʃ****sr****f****b****mon****pum****wif**
 A**n**? O& A**n**? aygi i**pyz****l****bn****f****xm****aom** t**z****y****ll****ll****u****ll****om**'uyj&**v****ll**

a&xll	tokuf		
baak	bm-uf	/b ak /	t"yll, f
bawh	am	/bɔ' /	tau;wibn
bek	b, f<u>f</u>	/bɛk /	apnibn apnibn
com	um-rf	/tçām/	uybn uytb
cat	um-of	/tçāθ/	&ybf &y<i>lwe</i>
cawh	a<u>us</u>m	/tçɔ' /	'Plubn 'Plyon
dam	'g-rf	/dām /	uʃrmon aeaum<i>ʃon</i>
dawp	a'g<u>yf</u>	/dɔ' /	clbn
dek	', f<u>f</u>	/dɛk /	tpb

faar	z̥m&f	/ph̥ ar /	xiʃw/
fang	z̥m-if	/phāŋ /	tpuʃtayguʃ tapitq̥ʃ
fek	z̥, t̥ui	/phēk /	ap̥yʃonʃ aocmonʃ
ham	[m-rf	/hām /	ap̥yʃonʃ
harh	[m-&U	/hār /	ueʃrmonʃ
hawh	a[nh	/hoˊ/	uʃmonʃ uvluʃ, bnʃ
hil	[θvʃ	/hīl/	avovyʃonʃ
kak	u-uʃ	/kək/	tubonʃ
kawh	aumh	/koˊ/	ac:onʃ
kok	uʃt-uʃ	/kou? k /	chionʃ uʃbonʃ
lam	v̥m-rf	/lām /	v̥m&m̥t&yʃ
lawk	av̥m-uʃ	/lɔ́k /	clonʃ cybonʃ
mak	rm̥-uʃ	/māk /	tl̥ɔcʃuz;z̥ʃ z̥p̥bonʃ
ngan	iʃ-ef	/ŋān /	a;&onʃ
pal	yg-vʃ	/pāl /	eʃonʃ 0iʃtubonʃ v̥monʃ
pum	yʃ-rf	/pūm /	OrʃAʃuʃ
qih(khih)	cl̥	/khiˊ/	ñeʃonʃ ñeʃyonʃ
qirh(khirh)	cl̥-&V	/khīrˊ/	jyeʃy;onʃ
ral	&m̥-vʃ	/rāl /	q̥m̥onʃ aymubonʃ
rit	&p̥-of	/ri?t /	av;onʃ
ruah	ʃt̥m̥h	/ruaˊ/	r̥V̥
sah	pm̥h	/saˊ/	xbonʃ
sur	pl̥-&f	/sūr/	yʃuʃ uʃʃ
talh	om̥-vʃ	/θāl/	ʃt̥ubonʃ
tawn	aom̥-ef	/θōn/	v̥uʃ iʃasɔonʃ
toh	oI	/θoˊ/	&f̥wñbonʃ
thak	Ó -uʃ	/ðək/	, m̥, b̥onʃ
βawt	aw̥m̥-wf	/tōt/	yʃbonʃ
βap	w̥w̥f-yʃ	/ta? p/	iʃbonʃ
βheh	x̥, h̥	/theˊ /	ly̥bonʃ
van	Am̥-ef	/bān/	r̥I̥ r̥laumiʃuʃ
virh	AB&U	/bīrˊ/	azmubonʃ
zarh	Zm̥-&U	/zār/	Oyboʃ
zawh	aZnh	/zoˊ/	al̥umiʃ
zil	Z̥vʃ	/z̥il/	avajy/

zvr̥csis̥bmonpum\ 0Pöylii wify&mwif wpb̥kuylom A[0Pöy&is
r̥m̥vn̥ r̥mp̥aw̥laom̥vn̥ pum̥ot̥t̥q̥i̥l̥av̥m̥i̥j̥y̥c̥i̥j̥z̥p̥i̥ tol̥v̥p̥o̥
y̥l̥om̥ {u0Pöy&i̥w̥l̥b̥m̥w̥i̥j̥c̥i̥j̥z̥p̥o̥n̥}

lit̥ b̥l̥oy̥b̥uf

jref̥m̥v̥l̥i̥&i̥l̥om̥ r̥s̥E̥G̥ p̥b̥i̥j̥p̥h̥om̥ zvr̥csis̥w̥l̥i̥&i̥l̥om̥r̥m̥on̥ ḁ/̥, c̥i̥u̥
jref̥m̥E̥l̥i̥He̥&m̥t̥E̥t̥j̥y̥m̥ü̥ aex̥l̥u̥on̥ c̥i̥v̥r̥l̥tr̥m̥p̥k̥ḁe̥x̥l̥h̥om̥ c̥i̥s̥w̥l̥i̥&y̥ḁ'o̥
u̥l̥ w̥l̥v̥y̥n̥, b̥ef̥e̥c̥b̥l̥i̥l̥v̥y̥f̥m̥ Oi̥b̥&mu̥l̥u̥l̥t̥l̥b̥j̥i̥h̥ c̥i̥s̥r̥E̥G̥ p̥k̥m̥ jref̥m̥
E̥l̥i̥l̥m̥u̥y̥l̥f̥ḁw̥m̥i̥w̥e̥f̥ḁ'o̥r̥m̥o̥l̥ ḁj̥y̥m̥i̥f̥ḁ&e̥x̥l̥t̥l̥u̥on̥ ḁe̥x̥l̥&m̥y̥&b̥u̥l̥ t̥p̥y̥l̥
vn̥fḁu̥m̥? &̥t̥p̥w̥n̥&m̥v̥ly̥l̥v̥u̥l̥ t̥p̥y̥l̥ v̥n̥fḁu̥m̥ r̥s̥E̥G̥ p̥l̥r̥n̥f̥m̥ u̥l̥y̥
v̥m̥b̥n̥ x̥l̥i̥j̥y̥m̥i̥f̥ḁ&e̥x̥l̥h̥om̥ ḁj̥m̥u̥y̥l̥f̥ḁw̥m̥i̥w̥e̥f̥ḁ'o̥r̥m̥\ v̥r̥y̥e̥f̥ q̥u̥b̥f̥ i̥
ḁ&c̥u̥t̥h̥ḁl̥u̥m̥i̥h̥ c̥i̥s̥r̥E̥G̥ p̥k̥m̥ w̥p̥E̥s̥h̥p̥p̥k̥ t̥ḁw̥t̥j̥y̥l̥e̥n̥f̥u̥m̥ ḁe̥x̥l̥&m̥ḁ&m̥'o̥
t̥v̥l̥i̥ c̥i̥s̥r̥E̥G̥ p̥k̥m̥ u̥l̥y̥v̥m̥o̥u̥l̥l̥ c̥i̥s̥r̥E̥G̥ p̥l̥v̥l̥ ḁj̥y̥m̥q̥l̥o̥m̥ c̥i̥s̥b̥m̥o̥p̥u̥m̥
o̥l̥v̥n̥i̥ u̥l̥y̥v̥m̥b̥n̥i̥ ḁe̥x̥l̥&m̥t̥&y̥ḁ'o̥u̥l̥ v̥l̥i̥ ḁj̥m̥u̥y̥l̥f̥c̥i̥? ḁw̥m̥i̥y̥l̥f̥c̥i̥?
ḁj̥r̥y̥e̥b̥i̥[l̥ v̥n̥fḁu̥m̥? ḁj̥m̥u̥y̥l̥f̥c̥i̥s̥i̥w̥y̥i̥f̥ w̥p̥w̥e̥c̥i̥? z̥v̥r̥c̥s̥i̥? [m̥c̥g̥c̥i̥[l̥
v̥n̥fḁu̥m̥i̥ u̥l̥y̥m̥o̥u̥l̥l̥z̥v̥r̥c̥s̥i̥r̥E̥G̥ p̥l̥y̥i̥f̥r̥s̥E̥G̥ p̥k̥(11)p̥k̥x̥y̥t̥H̥u̥l̥y̥m̥v̥s̥u̥l̥ḁl̥u̥m̥i̥
o̥l̥o̥n̥i̥ x̥l̥E̥G̥ p̥k̥(11)p̥k̥l̥o̥n̥ z̥v̥r̥b̥m̥o̥p̥u̥l̥ w̥w̥u̥l̥f̥l̥u̥ḁo̥m̥v̥n̥i̥ p̥l̥
r̥s̥E̥G̥ p̥k̥ ḁv̥f̥e̥f̥u̥l̥l̥v̥l̥l̥r̥s̥E̥G̥ p̥E̥h̥ Z̥m̥[m̥i̥r̥E̥G̥ p̥l̥b̥m̥ z̥v̥r̥c̥s̥i̥b̥m̥o̥p̥u̥l̥
r̥t̥b̥m̥o̥p̥u̥l̥t̥j̥z̥p̥i̥ ḁj̥y̥m̥q̥l̥o̥n̥i̥ u̥e̥r̥E̥G̥ p̥l̥b̥n̥i̥ r̥s̥E̥G̥ p̥l̥v̥l̥i̥ ḁ'o̥E̥l̥
b̥m̥o̥p̥u̥r̥s̥u̥l̥ḁj̥y̥m̥l̥ḁl̥u̥m̥i̥ ḁw̥l̥y̥g̥o̥n̥]

z̥v̥r̥c̥s̥i̥b̥m̥o̥p̥u̥w̥i̥ v̥l̥c̥s̥i̥Ḁn̥f̥ (16)v̥E̥s̥h̥ Ḁn̥f̥E̥p̥v̥l̥w̥(14)v̥E̥s̥b̥l̥v̥l̥
w̥l̥(3)v̥l̥ p̥b̥y̥g̥i̥f̥Ḁn̥f̥t̥ḁ&t̥w̥l̥i̥ f̥Ḁn̥f̥o̥l̥i̥f̥t̥v̥l̥(3)l̥ḁl̥u̥m̥i̥ ḁw̥l̥y̥g̥o̥n̥i̥ Ḁn̥f̥w̥
t̥o̥l̥y̥b̥n̥i̥ jref̥m̥b̥m̥o̥p̥u̥x̥u̥f̥ y̥l̥t̥o̥l̥s̥ḁl̥u̥m̥i̥ ḁw̥l̥o̥n̥i̥ z̥v̥r̥c̥s̥i̥b̥m̥o̥
p̥u̥w̥l̥v̥l̥om̥ *̥g̥ / ? *̥d̥3̥ / ? ½/ ɔ̥/ E̥s̥h̥ , ½/ j̥/ o̥l̥s̥m̥r̥½̥ jref̥m̥w̥l̥r̥½̥om̥
f̥/ f̥ / z̥b̥l̥ z̥v̥r̥c̥s̥i̥b̥m̥o̥p̥u̥w̥i̥ ½̥b̥n̥u̥l̥w̥l̥y̥g̥o̥n̥i̥ jref̥m̥b̥m̥o̥p̥u̥½̥ac̥:ḁ0̥:
ḁo̥m̥t̥r̥n̥f̥ e̥m̥r̥E̥s̥h̥ t̥j̥c̥b̥m̥o̥p̥u̥½̥t̥o̥l̥l̥u̥l̥w̥l̥i̥ ac̥:ḁ0̥:o̥l̥E̥f̥&m̥o̥m̥ *̥g̥ / ?
*̥d̥3̥ / ? ½/ ɔ̥/ E̥s̥h̥ , ½/ j̥/ o̥l̥s̥, t̥o̥l̥y̥b̥n̥u̥l̥ḁw̥l̥o̥n̥i̥

jref̥m̥b̥m̥o̥p̥u̥l̥b̥l̥i̥f̥ Ḁn̥f̥j̥p̥&m̥ḁ&m̥ u̥e̥b̥w̥t̥s̥u̥l̥b̥n̥i̥ t̥q̥l̥ḁ&m̥E̥s̥h̥
t̥p̥t̥q̥l̥ E̥p̥ḁ&m̥v̥l̥w̥i̥f̥ 0̥i̥b̥&m̥u̥j̥p̥E̥l̥h̥om̥ Ḁn̥f̥t̥ḁ&t̥w̥l̥i̥x̥u̥f̥ t̥p̥ḁe̥&m̥ j̥p̥E̥l̥h̥om̥
Ḁn̥f̥t̥ḁ&t̥w̥l̥i̥ f̥l̥s̥m̥o̥n̥u̥l̥ḁw̥l̥y̥g̥o̥n̥i̥

z̥v̥r̥c̥s̥i̥b̥m̥o̥p̥u̥w̥i̥ o̥&o̥l̥i̥ü̥ o̥&o̥el̥b̥(11)v̥E̥s̥h̥ o̥&w̥l̥y̥g̥i̥ (14)v̥l̥
½̥b̥n̥i̥ o̥&(3)v̥l̥x̥d̥ w̥l̥t̥o̥l̥y̥E̥l̥b̥n̥i̥ jref̥m̥b̥m̥o̥p̥u̥x̥u̥f̥ o̥&w̥l̥t̥o̥l̥y̥l̥ r̥s̥
o̥n̥u̥l̥w̥l̥o̥n̥i̥ x̥l̥c̥m̥o̥n̥f̥i̥ jref̥m̥ 0̥f̥w̥/ o̥l̥l̥i̥ o̥&E̥s̥t̥l̥u̥m̥o̥&t̥j̥z̥p̥i̥ t̥o̥l̥y̥
j̥c̥i̥f̥y̥i̥j̥z̥p̥b̥n̥i̥

e<sup>*</sup>H

þpmwrfonf Nefnivl&isomrs~~SE~~ þðiszþam zvrfsi fwil&isomrs\
pumotyull bmonpumavlvrlaxmirs avlvwiflyxmaom pmwrfwpþpmif
jzþgonf pmwrfwif pumotyull EþEþCjzþam oñifeshopþyull avlvwifly
xþgonf þavlvmoþwoejylcsurfonf zvrfsi bmonpum\ pumotyull
oñvvnþaprni zvrfsi bmonpum\ o'gull avlv&nü taxmuftyjyEfnifk
, Mnarviflygonf zvrfsi bmonpum\ pumotyullbm avlvwiflyxmcif
jzþf pumvþyull þpEshOgusyull þpfrsull quvuf avlvazmfbkv&ef usvleao;
alumi wiflyggonf

usefulpm&if

*cisforlifysazylph&austrwli(2001)/ cisvrlifysm\ orllszppoesllwm , Obusrl'avlkplisn
tuoll &elylettll ELC atnizayi*

aw~~l~~qar;jeſaom y~~k~~ur;sm;

armi fūma&gūsef(zvrfcsifrs~~SE~~)? r[m0zlf kvd E&(t *lvjpm) csi spk&f uav;Nr

rAefaqGusif(zvrſcsifſrſEg)? r [moylüüfysw' kwd Eſp Bulibolyi&yufuſl uav;NtW