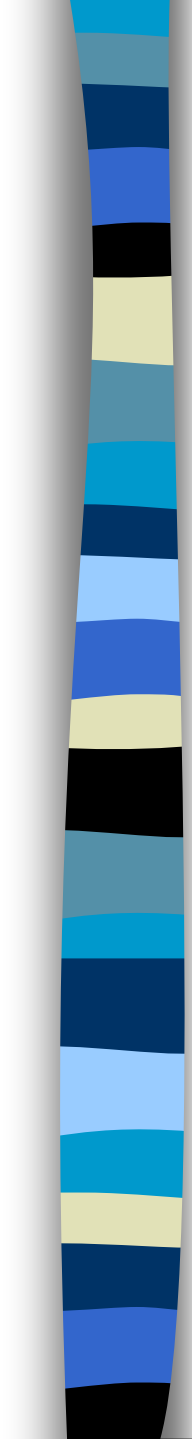


ဝါဠုကဇာတ်ဆေးတွင် ပါဝင်သောသတ္တုဇာတ်များကို တိုင်းတာဖော်ထုတ်ခြင်း

* မျိုးသိတာအေး၊ ** သန်းအုန်း၊ *** သိန်းဇော်လင်း

* $\text{cwif}(100)\text{wif}\&\text{ifaq};\frac{1}{2}\text{keijn}\text{awmf}$
** $\text{atmipnfwif}\&\text{ifaq};\text{cefrE}\text{v};?$
*** $\text{owoe}^{\text{zha}}\&\text{Xmec?aeijn}\text{awmf}$



edef

-jref w&ifaq;q&m rsm; onf a&S&yifr sm;pm uyif w&ifaq;

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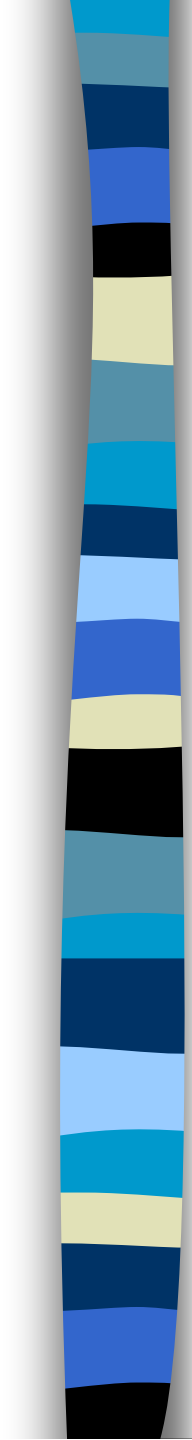
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tema [mifr sm; uk&m wifv nfaumif t o k&ao m 0Z& "w&aq; t jzpf
w&ifaq;av m uwifaumif m;ao m

- 0qV\uaq;uk&w&air sm;jzpf&ao m jy'g; (Mercury, Hg)? bif(crjzL) (Tin,
Sn) ? uefY(Sulphur, S ES&hZ0uf m (Ammonium chloride,
NH₄Cl)w&h&qwl a&maES av;&ufqufw&h&f rD&wf ty&ay;azm p&y&m
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XRF)puj&izim&fw mlyDp&okwoe

&n¹, t¹uf

- 1/ 0_qV\uaq;azm¹py&m¹wift o_q\laom aq;ypöfufur¹r¹sm;wify0iön¹h
owa¹m¹wf¹sm;\y_q0if¹yr¹m¹PE¹Sto¹er¹f¹u¹b¹&S¹ifzift prfx u¹f¹
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Methodology

Study design

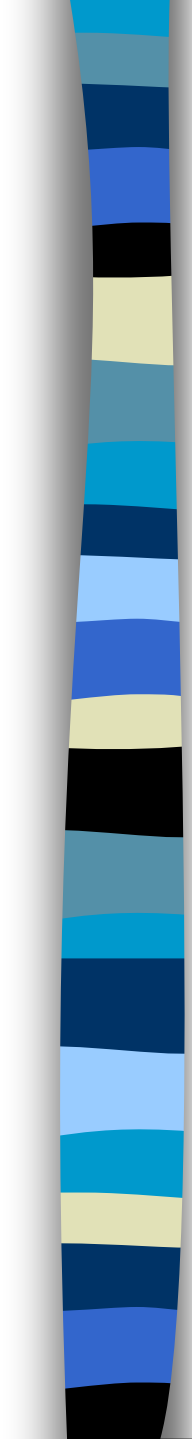
Experimental study

Study period

2014-2015

Study area

University of Zimbabwe



oakwoeyjvktmwiq0iaomypöfEShvkyk (material and method)

- jy'q; (Mercury, Hg)?
- b i f (crjzL) (Tin, Sn)?
- u e f (Sulphur, S) ESh
- Z0u f m (Ammonium chloride, NH₄Cl)

-0qV\ u a&? 0qV\ uyk? 0qV\ urwN 1/2y "mwkP bwa;wkwmicif
-aq;ypöf u k f r f r sm;? 0qV\ u a&T 0qV\ uyk ESh 0qV\ urwN if
y0iaom owa;w f sm;\ y0iflyrmP ten f t r sm;u k WDXRF
(WD X-ray Fluorescence Method) p u f i f w k wmicif

aq;pyh; qifih

Z, m; (1) y0i f o m aq; y p ö f r m; \ aq; t a v; c e f r m P r m;

စဉ်	မြန်မာအမည်	သိပ္ပံအမည် (ဓာတုသင်္ကေတ)	ဆေးအလေးချိန် (ကျပ်သား)
၁။	ပြဒါး	Mercury (Hg)	၅
၂။	တင် (ခဲမဖြူ)	Tin (Sn)	၅
၃။	ကန့်	Sulphur (S)	၅
၄။	ဇက်သာ	Ammonium chloride (NH ₄ Cl)	၅
စုစုပေါင်း ဆေးအလေးချိန်			၂၀



iy'f;



bif



uefY



Z0ufm



0V u , E& p DeyK



www.myl

aq;ypöfufurf(4) rdES0Vuaq;vT(3)vTxwif0iaom

owaamwfsm;\ y0ifltenftrsm;uX-ray Fluorescence (WD-XRF)

(XGT-5200), HORIBA pujizimwchonf



aw&Tuf

aq;re v m w 1/2 y - " mwk * P b w d m; u d y w if j y x m; o u o n
 t a y: q k l v m T 0 y V u j r o n f j r a & m i f t a e j z i f n f a u m i f t v , f v m T 0 y V u
 y k v m T o n f t j z l r d f & m i f t j z p f v n f a u m i f a t m u f q k v m T 0 y V u a & T n f
 a & T a & m i f



0 y V u a & T



0 y V u y k



0 y V u j r

wif&ifaq;q&m rsm;\ tawYbuHl& 0V\ua&Uk v u f0;ay: wif
 ywfunhu ro m;v ifroepMaumifEStricfr&Sya&Ta&mifaw&yu
 oepMaumifu kwifazmjx m; onft wif^{1/2}y*P bwaalumifaumif



a&y m \ ^{1/2}y*P bwa prfoyykl

aq;ypöfuf(1)roDwfm&m-

jy'g; (mercury, Hg)? bif(crjzL) (Tin, Sn)? uef(sulphur, S) ESh
Z0ufm (ammonium chloride, NH₄Cl)wif y0iaom
owaawfsm; \ y0ifyrP uobef WD-XRF pujih
wifm&m rS&S maom t ajzsm; ukZ, m; (2? 3? 4 ESh) wif
azmifxm;

၂, ၁, ၂, ၃, ၄, ၅ (၂) - ဂျီ (mercury, Hg) ဖြစ်သည်။

စဉ်	မြန်မာအမည်	သိပ္ပံအမည် (ဓာတု သင်္ကေတ)	Mass %
၁	ကလိုရင်း	Chlorine(Cl)	0.0683
၂	ကယ်လ်စီယမ်	Calcium(Ca)	0.371
၃	ဆီလီကွန်	Silicon(Si)	0.853
၄	သံဓာတ်	Iron(Fe)	0.110
၅	ပြဒါး	Mercury, (Hg)	98.6

၂, ၁, ၂, ၃, ၄, ၅ (၂) - ဂျီ (mercury, Hg) ဖြစ်သည်။
၁, ၂, ၃, ၄, ၅ (၂) - ဂျီ (mercury, Hg) ဖြစ်သည်။
၁, ၂, ၃, ၄, ၅ (၂) - ဂျီ (mercury, Hg) ဖြစ်သည်။
၁, ၂, ၃, ၄, ၅ (၂) - ဂျီ (mercury, Hg) ဖြစ်သည်။
၁, ၂, ၃, ၄, ၅ (၂) - ဂျီ (mercury, Hg) ဖြစ်သည်။
၁, ၂, ၃, ၄, ၅ (၂) - ဂျီ (mercury, Hg) ဖြစ်သည်။
၁, ၂, ၃, ၄, ၅ (၂) - ဂျီ (mercury, Hg) ဖြစ်သည်။
၁, ၂, ၃, ၄, ၅ (၂) - ဂျီ (mercury, Hg) ဖြစ်သည်။
၁, ၂, ၃, ၄, ၅ (၂) - ဂျီ (mercury, Hg) ဖြစ်သည်။
၁, ၂, ၃, ၄, ၅ (၂) - ဂျီ (mercury, Hg) ဖြစ်သည်။

Z, m; (3) - bif(crjzl) (Tin, Sn) u w h w m & m r s & s m a o m o w a w f s m ; \ y 0 i f y r m P

စဉ်	မြန်မာအမည်	သိပ္ပံအမည်၊ (ဓာတု သင်္ကေတ)	Mass %
၁	နီကယ်လ်	Nical (Ni)	0.02
၂	ပြဒါး	Mercury (Hg)	0.07
၃	သံဓာတ်	Iron (Fe)	0.30
၄	ကြေးနီ	Copper (Cu)	0.62
၅	ခဲ	Lead (Pb)	3.03
၆	တင်(ခဲမဖြူ)	Tin (Sn)	95.94

- bif y 0 i f y r m P r s 95.84% j z p f y D t j c m ; a & m a E s y 0 i f e a o m o w a ; t j z p f e D , f a l u ; e D s o H w f w l y y 0 i f y r m P r s (0.02%? 0.30%? 0.62%) (1% x d & s t v e e n f y a o m y r m P j z i a & m a E s

- x w j y i f b i f w i f v u k t E a , j z p a p a o m o w a ; j z p b n f y ' ; (0.07%) E s o (3.03%) p o n f w l & m a E s

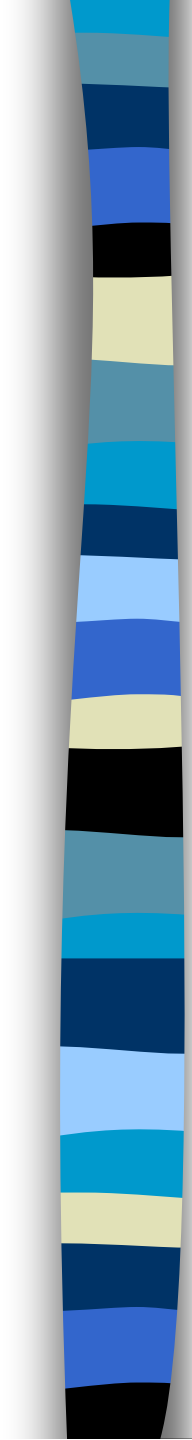
Z, m; (4) uef (sulphur, S) u w f m & m r S & S m a o m o w a w f m; \ y 0 i f y r m P

စဉ်	မြန်မာအမည်	သိပ္ပံအမည်၊ (ဓာတု သင်္ကေတ)	Mass %
၁	သံဓာတ်	Iron (Fe)	0.0163
၂	ဖော့စဖရပ်	Phosphorus (P)	0.0357
၃	ကယ်လ်စီယမ်	Calcium (Ca)	0.0668
၄	ရိုဒီယမ်	Rhodium (Rh)	0.0842
၅	ပိုတက်စီယမ်	Potassium (K)	0.0964
၆	စီလီကွန်	Silicon (Si)	0.358
၇	ကန့်	Sulphur (S)	98.8

uef (S) u f m w f Z, m; (3) E S (4) w i f a z m j x m; o n f t w f v u d E & , f r j z p a p a o m o w a ; a & m a E S y 0 i f e o n f u w f m a w a y S o n f

Z, m;(5) Z0ufm (Ammonium chloride, NH₄Cl) uww&mr&Smaom
owāwfrsm; \y0iflyrP

စဉ်	မြန်မာအမည်	သိပ္ပံအမည်၊ (ဓာတု သင်္ကေတ)	Mass %
၁	ဖော့စဖရပ်	Phosphorus (P)	0.0364
၂	သံဓာတ်	Iron (Fe)	0.0459
၃	ပိုတက်စီယမ်	Potassium (K)	0.131
၄	ကန့်	Sulphur (S)	0.149
၅	ကယ်လ်စီယမ်	Calcium (Ca)	0.220
၆	ရိုဒီယမ်	Rhodium (Rh)	0.304
၇	စီလီကွန်	Silicon (Si)	0.727
၈	ဆိုဒီယမ်	Sodium (Na)	5.21
၉	ကလိုရင်း	Chlorine (Cl)	90.1



aq; t re $\pi(1)$ rpDw&m-

0Vua&?DVuyk ESbVujr wify0iaom owa π wf y0ifyrmP

tenft r π ; u π wf&m&m&m owa π wpif (element) ES

&m π ef(mass %)w π , m; (6?7?8)wiazm π y onf

- 0.0298% (Lead, Pb) 3.03%
 - 0.0562% (Iron, Fe) 0.152%
 - 0.153% (Chlorine, Cl) 0.463%
 - 18.5% (Sulphur, S) 41.2%
 - 41.2% (Tin, Sn)

Z, m; (6) 0.0298% (Lead, Pb) 3.03%
 - 0.0562% (Iron, Fe) 0.152%
 - 0.153% (Chlorine, Cl) 0.463%
 - 18.5% (Sulphur, S) 41.2%
 - 41.2% (Tin, Sn)

စဉ်	မြန်မာအမည်	သိပ္ပံအမည်၊ (ဓာတ် သင်္ကေတ)	Mass %
၁	ခဲ	Lead (Pb)	0.0298
၂	သံဓာတ်	Iron (Fe)	0.0562
၃	အင်ဒီယမ်	Indium (In)	0.152
၄	ကလိုရင်း	Chlorine (Cl)	0.153
၅	ဆီလီကွန်	Silicon (Si)	0.463
၆	ဆာလ်ဖာ	Sulphur (S)	18.5
၇	တင်(ခဲမဖြူ)	Tin (Sn)	41.2

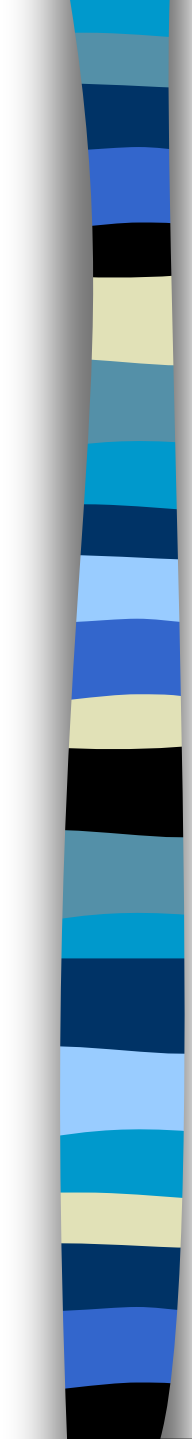
- ၀.၀၂% ဖော့စဖော့ရစ် (Phosphorus) ၀.၀၄% တိုရီယမ် (Thorium) ၀.၀၅% ငွေ (Silver) ၀.၁% ရိုဒီယမ် (Rhodium) ၀.၁၃% ရူသ်နီယမ် (Ruthenium) ၀.၁၈% မဂ္ဂနီစီယမ် (Magnesium) ၀.၆၇% ဆီလီကွန် (Silicon) ၂.၂၅% မြဒါး (Mercury) ၃.၈၃% ကန့် (Sulphur) ၂၉.၁% တင် (ခဲမဖြူ) (Tin) ၄၈.၆% ကလိုရင်း (Chlorine)

စဉ်	မြန်မာအမည်	သိပ္ပံအမည် (ဓာတ် သင်္ကေတ)	Mass %
၁	ဖော့စဖော့ရစ်	Phosphorus (P)	0.0278
၂	တိုရီယမ်	Thorium (Th)	0.0465
၃	သံဓာတ်	Iron (Fe)	0.0539
၄	ငွေဓာတ်	Silver (Ag)	0.1
၅	ရိုဒီယမ်	Rhodium (Rh)	0.126
၆	ရူသ်နီယမ်	Ruthenium (Ru)	0.133
၇	မဂ္ဂနီစီယမ်	Magnesium (Mg)	0.187
၈	ဆီလီကွန်	Silicon (Si)	0.674
၉	မြဒါး	Mercury (Hg)	2.25
၁၀	ကန့်	Sulphur (S)	3.83
၁၁	တင် (ခဲမဖြူ)	Tin (Sn)	29.1
၁၂	ကလိုရင်း	Chlorine	48.6

- ၀.၁၆% Iron, ၀.၁၈% Lead, ၀.၂၃% Aluminium, ၀.၂၆% Magnesium, ၀.၂၆% Potassium, ၀.၅၈% Indium, ၁.၂၁% Silicon, ၁.၇% Calcium, ၄.၃၉% Tin, ၄.၃၉% Chlorine, ၉.၆၇% Sulphur, ၅၄.၄% Mercury

Z, m; (8) ၀.၁၆% Iron, ၀.၁၈% Lead, ၀.၂၃% Aluminium, ၀.၂၆% Magnesium, ၀.၂၆% Potassium, ၀.၅၈% Indium, ၁.၂၁% Silicon, ၁.၇% Calcium, ၄.၃၉% Tin, ၄.၃၉% Chlorine, ၉.၆၇% Sulphur, ၅၄.၄% Mercury

စဉ်	မြန်မာအမည်	သိပ္ပံအမည် (ဓာတု သင်္ကေတ)	Mass %
၁	သံဓာတ်	Iron (Fe)	0.161
၂	ခဲ	Lead (Pb)	0.186
၃	အလူမီနီယမ်	Aluminium (Al)	0.23
၄	မဂ္ဂနီစီယမ်	Magnesium (Mg)	0.261
၅	ပိုတက်ဆီယမ်	Potassium (K)	0.263
၆	အင်ဒီယမ်	Indium (In)	0.579
၇	ဆီလီကွန်	Silicon (Si)	1.21
၈	ကယ်လ်ဆီယမ်	Calcium (Ca)	1.7
၉	တင်	Tin (Sn)	4.31
၁၀	ကလိုရင်း	Chlorine (Cl)	4.39
၁၁	ကန့်	Sulphur (S)	9.67
၁၂	ပြဒါး	Mercury (Hg)	54.4



aq; aE; o; yf; uf

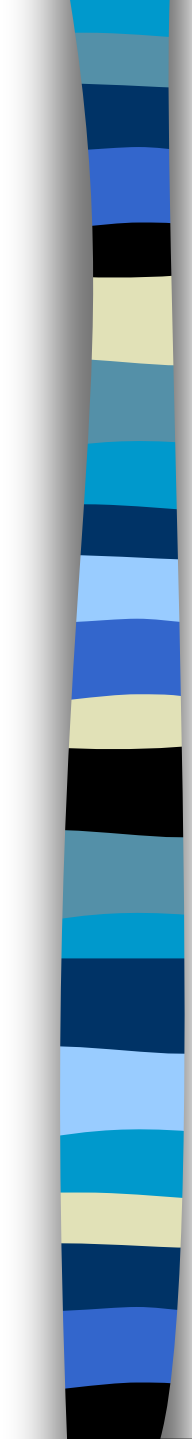
- 0; V; u; a; & T; y (1 g) u; k; MF-15 50 u; y; b; m; (80 g) E; S; a; m; í

(o; k; [w; f)

- 0; V; u; a; & T; y (1 g) u; k; sm; & n; 50 u; y; b; m; (80 g) E; S; a; m; í

- a; i; f; a; q; y; 0; i; a; o; m aq; w; p; k; 50 u; y; b; m; (80 g) w; i; f; t; & , a; & m; u; b; l

aq; w; p; i; u; d; i; o; m u; f; r; m P 2 y (2 g)



Essential for humans
 Suggested to be essential for humans
 Nonessential for humans

1																		18
1	1 H	2																2 He
2	3 Li	4 Be											5 B	6 C	7 N	8 O	9 F	10 Ne
3	11 Na	12 Mg											13 Al	14 Si	15 P	16 S	17 Cl	18 Ar
4	19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr
5	37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe
6	55 Cs	56 Ba	57 La	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn
7	87 Fr	88 Ra	89 Ac	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Uub	113 Uut	114 Uuq	115 Uup			

-0V\ua&?T0V\uyk ES0V\ujr wWifvukE& , fizpāpao m owa&wfsm; ES
y0iflyrmP rsm; í tE& , fizpE&nf[k q&aom owa&wfsm; yrmP u&ADI value
(Acceptable Daily Intake value recommended by WHO) rsm;ES&f , SÍ Z , m;(9? 10? 11)

Z , m;(9)

သတ္တုဓာတ်	ADI value mg/Kg	ဝါငြုကရွေ
ဆာလဖာ	800-1000 mg	0.723 mg
ဘင်(ခဲမဖြူ)	10-20 mg	1.6 mg
ခဲ	0.007 mg	0.00116 mg
ဗြဒါး	0.0007 mg	-

Z , m;(10)

သတ္တုဓာတ်	ADI value mg/Kg	ဝါငြုကပုလဲ
ဆာလဖာ	800-1000 mg	0.119 mg
ဘင်(ခဲမဖြူ)	10-20 mg	0.9 mg
ခဲ	0.007 mg	-
ပြဒါး	0.0007 mg	0.07 mg

Z , m;(11)

သတ္တုဓာတ်	ADI value mg/Kg	ဝါငြုကမြ
ဆာလဖာ	800-1000 mg	0.302 mg
ဘင်(ခဲမဖြူ)	10-20 mg	0.135 mg
ခဲ	0.007 mg	0.0058 mg
ပြဒါး	0.0007 mg	1.7 mg

- WHO u owfSw m;aom c"mwf ADI value wefz0.007 mg/Kg jzpfjyD
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- t c s l u w f & i f a q ; q & m r s m ; o n f 0 g V \ u y k E S h 0 g V \ u j r E p f s k a & m p y f u m
0 g V \ u c s O f y m t j z p f o k a e l l u a o m a l l u m i h a o m u a q ; t j z p f v n f a u m i f
v d f a q ; t a e j z i f y v k r o k l o i f a u m i f

Conclusion)

- power-law distribution of the number of links per node in the network. The distribution is characterized by a power-law relationship between the degree of a node and the number of links it has. The distribution is characterized by a power-law relationship between the degree of a node and the number of links it has. The distribution is characterized by a power-law relationship between the degree of a node and the number of links it has.
- The distribution is characterized by a power-law relationship between the degree of a node and the number of links it has. The distribution is characterized by a power-law relationship between the degree of a node and the number of links it has. The distribution is characterized by a power-law relationship between the degree of a node and the number of links it has.
- The distribution is characterized by a power-law relationship between the degree of a node and the number of links it has. The distribution is characterized by a power-law relationship between the degree of a node and the number of links it has. The distribution is characterized by a power-law relationship between the degree of a node and the number of links it has.

- x ~~W~~ j y i f 0 V u j r w i f y ' g ; " m w & m c k E e f x u 0 u á u s m j f e f v n f y 0 i á e a o ; o j z i h
a q ; 0 g ; t j z p f v k t o k l y o i h
- w ~~W~~ i f a q ; y n m & S s m ; t a e j z i h 0 z E " m w á q ; y n m w i f a t m i f r i f y D t o k l
r s m ; a e a o m 0 g V u a & a q ; e n f w l t j c m ; " m w á q ; r s m ; u k n f , c k o b a w o e
" m w t c e f r s m ; w i f o w á w f s m ; \ y r m P u k w á a o m f n f a u m i f t q y f
t m e o i f & S p r f o y f D o k E k y u t m e o i f x u f r u b n h a q ; p r f a u m i f
r s m ; t j z p f t r s m ; j y n b u k , k n p w c p m a y ; á u ; u k r l j y E k f n f j z p á u m i f
w i f y & i f e d k l y f t y f o n f

au;ZhwifT

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a':&DihpmwrfEhywbu f roe m;r v n b n f sm;u&Svifo ifay;yaom
jrefmEk w&ifaq;q&m t o i f(A [hq&m u DD efnef(Okz)Hn tu m;a&rS
q&m 0Difrih w&ifaq;wuó&f yarm u©y(lid) a'ufwmoefarmif
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bra'XmerSyarm u©XmerS a'ufwmoefoefEkEShw&ifaq;wuó&f
okwoeXmerSv&azm f&uf sm;u&lau;Zlt x l w i&Sa u m i f ppmwr f z i h
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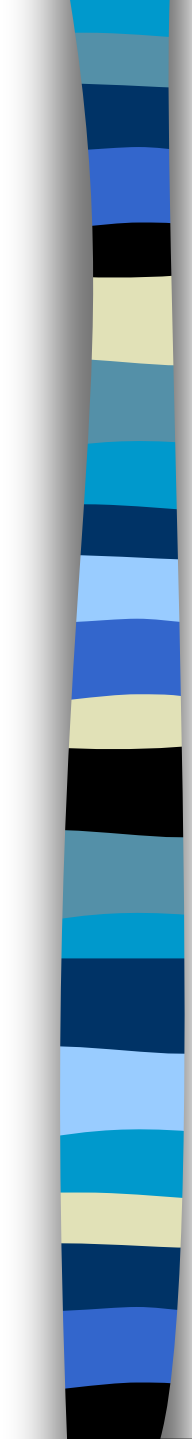
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£pao , yduwfyEfvHf&efu br015-217/

4. ~~o i t e f p m j y p k & ; a u m f w D a q ; y n m X m e ? 0 z h E e , ? w w d E s f u e s f r m a & ;~~
~~0 e f u D m e ? w k f & i f a q ; y n m 0 p p D m e ? w k f & i f a q ; w u ó k f r E a v ; ?~~



ကျေးဇူးတင်ပါသည်။