

pggt nk; l vtl

- dxlb/fh sf8fn
j fuj fgl lj sf; clwsf
-xfn s#k=j=c=: #fdk/df cllbog/t_

l=kl/ro-

nk; l ktdn8 ; dxdf kgI ; fwf/oftof 7hf]?v xg] efn]/ kfyL j f6
j Qnf j Qn}xg] axelPfo lj ?j f xf]. o; sf]culhl gfd Hog plum tyf
j } flgs gfd *Choerospondias axillaris* xf]. of]Anacardiaceae kl/j f/df
kb5 . lj h'lj ?j fx? w]}7hf]?v xg]-@% dl= e6bf clnf] xbf k/Dk/fut
?kdf nuf0Psf ?vx?j f6 kmn l6kg cTo6t sl7gf0{kgI bl}v65 . t/
sndl lj lwj f6 pTkflbt lj ?j fx? eg]@-# j ifdf g}kmn lbg ; ? ugI
pkoQmJoJ : yfklso sfo{u/df j f6sf]cfsf/ ; fg]j 19 kmn lbg}x65g\

nk; lsf]efn]/ kfyL af6 ; fg]cj : yfdf aflx/L x}f0{af6 56ofpg
ufxf]x65 . hj kmn vllg]cj : yfdf la?j f kU5 kmn kmnb5 tj dfq
; lhn}56ofpg ; ls65 . nk; lsf]kmn kfs}kl5 kx}nf]/l; nf]xg}sf]; fy}
SofN; lod, kll6g, / ; S}h}sf]dfqf j 19 kf065 . nk; lsf]alpm s8f,
uf}nf] nfdrf]cfwf/sf] ; fwf/oftof % j 6f j lpm pdg]kj fn /x}sf]x65 .
goffkft lg:sbf kofhl /usf]rldsnf] kftsf gzfx? /ftf]x65 eg]hj
l5Kklb}hf65, tj xl/ofdf kl/oft x65 . kftx? sDkfp08 k\$f/sf,
!-!-% lkn6 nfdf]x65g . kmn kmng]; do knfug r6 lt/ x65, k/fu; }g
sfo{ls/fx? tyf xfj fsf]d2tn}xg]ub5 .

gkfn df 'nk; l' elgP dn}e6fgdf 'nd; l', l; Sslddf 'nk; l', rlgdf
'gfg : j fg hfcf] ; hfkfgdf '5fgrlg df\$}l' elgg]u/\$f]k065 .

e= pTkt / knfj 6

nk; lnf0{gkfn}sf]: j b}zL lj ?j f elg65 -Roxburgh 1832_ . t/ klg
gkfn afx\$ of]pQ/ k}l{ef/t, e6fg, blf0f k}l{rlg, hfkfg, leotgfd,
yf0Nof08, x^as. cflb b}zx?df kf065 . gkfn afx\$ c6o b}zx?df

JoJ ; flos ?kdf vlt ul/Psf]yfx xg cfPsf]5g . h; n]ubf{nk; lsf jf?x? k[s[ts ?kdf hundf g}; ldl t /x\$]aldn5 . gkfn afx\$ ef/tsf]l; lsdff crf/ tyf Sof08l agfpgsf]nflu o; sf]lgs}kofu xg] tyf c6o hunl cj :ydf g}/x\$ kknknx? dWlo; sf]Jofkf/ ; a} eGb al9 xg]u/\$]kf05 . x^as. df /x\$]k[s[ts hundf of]kz:t dfqf kf0g] t/ o; sf]kmsf]pkofu hunl r/fr? . l, hgfj /af6 dfq} xg]u/\$]kf0Psf]o; sf]gfd 'Hog plum' /xgdf ; u/ g}o; sf]knfj 6sf] dxTj kof{Ph}6sf]?kdf /x\$]h]xg uPsf]xf]. Chen *et al* 2001 .

gkfn df k[s[ts ?kdf dlWokxf8l lhNnfx?sf hunx?df of]kf05 eg] JoJ ; flos ?kdf sf7df08f}pkTosf, sfe] l; Gwkfnrf\$, bfhv, gj fsf, sf:sl, wgsdf, Onfd cflb lhNnfd v]lsf]kl/De e0{; s\$] 5 .

#= gkfn df JoJ ; flos nk; l vlt

xfdf]bzd df nk; lsf lj h'lj ?j f s[fx?nf0{lj t/of ug]sfo{lj =; + @)@&.)@* ; fn lt/af6 ; ? ePsf]b]vG5 . lj h'lj ?j f lj t/of sfo{s[if afx\$ ag sfof?ox? af6 j [ff/fk0fsf] ?kdf lj t/of u/\$] kf05 . o; /l lj t/lt lj h'lj ?j fx? /f]bf s/lj &)-&% kl|tzt af?x? efn]xg] tyf pQmaf? gknlg] kfyL Aff? klg lj h'ePsf]xbf knn pTkfbgsf]nflu *-!) j if{ Dd kv?kg]ePsf]s[fx? 7hf]dsf?f kl//x\$]; Gb?nf0{ Wofgdf /flv lj =; @) \$.) \$! ; fn bl]v j fuj fgl s[bl]ufbfj /ldf nk; lsf] sndl la?j f tof/ kfg]k4ltsf]clWog kl/lfof z? ePsf]b]vG5 t/ klg pQmsfof cfzfltt ; knntf eg]lj =; @) %).%^ ; fnj f6 tTsflng j fuj fgl s[bl]ufbfj /ldf Jofks ?kdf sndl lj ?j f pTkfbg ; ? ePk15 kfPsf]b]vG5 . o; n]nk; l pTkfbs s[fx? ; fdbflos ag pkefQnf ; ldl t cflbnf0{7hf]xf} nf ldNg uPsf]kf05 . h; af6 JoJ ; flos nk; l v]l tkn{s[fx? pT; flxt e0{nk; lsf]lj ?j fsf]dfu clWoflws a9\$] b]vG5 . PSnf]; /sf/l kof; n]dfq s[ssf]dfu wfGg g; lsg]cj :yf

l; hōf ePsfh] j fuj fgl s[|uf]fj /l, kmktn lj sf; lgbzgfno tyf
 pkTosfsf lh-s#j =sfo{ox?sf]; eQm klj lws tyf cfly\$; xofudf
 pkTosfdf sxl lghl g; {lx? :yfkf ug{nk; lsf]sndl lj ?j f pTkfbgdf
 hōg yfn\$]kf0€5 . xfn cfP/ pkTosf j flx/ l; GwkfNrf\$ / gj fsfōdf
 /x\$] lghl g; {lx?n] klg nk; l ađf{ pTkfbg sfođf ; nUg /x\$]f
 kf0€5 . t/ pTkfbgsf] u0f:t/ tyf ; Wof eg] cem} sd g}/x\$]f
 kf0€5 . o; df ; wf/sf]vfrf]b]V65 . klk lj sf; s[|uf]fj /ln]s[|sx?sf]
 dfunf0{Wofgdf /flv lj ut % jif{otf jifōl !@ b]v !% xhf/sf]
 xf/fxf/ldf sndl nk; lsf u0f:t/lo la?j fx? pTkfbg tyf lj sl lj t/0f
 ub{cf0/x\$]f5 . t/ s[|sx?sf]dfu eg]lbgfg' lbg a9b)u0/x\$]f5,
 cem o; sfođf g]kn ; /sf/n]cf-j=)^#.)^\$ b]v 'Ps ufpm Ps
 pTkfbg' sfo\$đ cGt/ut nk; l v]lnf0{eQnk'/ lhNndf gdđfsf]?kdf
 ; #fng u/\$]f]xbf o; n]s[|s dfem7hf]pT; fx ylk lbPsf]5 . h; n]ubf{
 cfudl j ifx?df o; k\$]/sf]sfođnd cGō lhNnfx?df klk ; #fng xg]
 ; e]j gf j 9b)uPsf]kf0€5 .

sndl lj lwaf6 pTkfbt lj ?j fx? #- \$j ifōf g}km lbg\$]; fy)c?
 kmktnsf]thgdf sd dlntf]hluf, le/fnf]hlufdf nufpg ; lsg]tyf
 /f]v ls/fn]sd cfqndof ug]xbf o; v]lnf0{sd vr{tyf d]xgt n]lg]
 xbf xfnsf j ifx?df s[|sx?sf]cfsifōf]s[|b]lj Gb'o; v]ln]xg uPsf]
 5 . h; n]ubf{sf7df08f}nIntk/, eQnk/, l; GwkfNrf\$, sfe] gj fsfō,
 b]hvf, /fd\$fk, /; j f, Onfd, cfb lhNndf Joj ; flos ?kdf o; v]l]sf]
 pTkfbg ; ? e0{; s\$]f]5 . o; sfođf ; /sf/l tyf ux« /sf/l lřj f6
 s[|sx?nf0{lj z]f cgbfgsf sfo\$đx? ; d] ; #fnt e0/x\$]f 5g\

g]kndf nk; l v]l]sf]j tōfg cj :yfnf0{lgofNbf @(lhNnfsf #)!
 uf-]j =; x?df nk; l v]l]xb)cfPsf]kf0Psf]5 h; d]Wb)\$) xhf/ lj ?j fx?n]
 pTkfbg lbg ; ? ul//x\$]f / % nfv gof-]j ?j fx? -lj h' / sndl ; d]_
 /fk]sfo{ePsf]5 . -Poude1,2001_ . o; j f6 s[|sx?sf]cfo cfhōdf
 ; wf/ Nof0{u/lj l g]f/0f sfođf 7hf]6]f kl]g]b]V65 .

\$=dxTj M-

nK;L Ps dxTj kOf{j xpkofyl lj ?j f x]. o; sf] kmnsf] ublaf6
 crf/, Sof08L, lj leGg k\$F/sf kfpM df8f, lttf}f, j gf0G5 eg] kmnsf]
 af\$]laf6 cldnf]/ lj ofnf0{cfuf]j flNg kofyl ul/G5 . o; sf] j f\$]nf0{
 k/Dk/fut cfifwl agf0{kfih}sf]3fpmIgsf]kfg{kofyl ul/G5-Nguyen *etal*,
 1996_ . lj ofnf0{bGtdGhg ; d]df kofyl u/\$f]kf0G5 . o; sf] kmndf
 kZ:t dfqdf le6fldg ' ; l' kf0G5 . !)) u]d nk; lsf] ubldf
 @%&#-(@=# dl= uf= / j f\$]df #!=* &-!!(#* dl=uf= el6fldg ' ; l'
 kf0G5 . ->]7 @)^# _ o; afx\$ kfs\$] kmndf kZ:t dfqdf ; s]h,
 SofN; lod kf0G5 . o; sf] sf7 kngf/ tyf 3/ lgdf0df kofyl ul/G5 .
 xfufij uf bfp/fsf]?kdf / kft sDkf]6 dn agfpg kofyl ul/G5 .

cfly\$ b[6lsf]fn]o; sf] dxTj cem lbg klT lbg j 9b}uPsf]
 kf0Psf] 5 . le/fnf]sd; n kvf]h]lufdf ; d] o; sf] v]l ug{ ; lsg]
 xbf cG0 kmnknsf] thgdf sd d]xgtdf j 19 km0kf xg] xbf ul/lj
 lgj f/Ofdf ; d] o; n]k]olf ; xofyl k%ofpg]b]vG5 . o; sf] ; fy}nk; lnf0{
 kZ]v]g u/L lj leGg k\$F/sf kl/sf/x? tof/ kf/L ; f]sf]lgof\$ kj 4G
 u/L lj bZl dbf cfhg ug[kZ:t ; efj gf /x\$]xbf o; v]lsf]dxTj
 eng a9b}u0{x\$]b]vG5 .

%=xfj fkgf -

o; sf] v]l ; dlztf]of lsl; dsf]xfj fkgf ePsf]:yfg cyf\$!)))
 dl b]v !%)) dl= ; Ddsf] prf0df ; kmntfk] \$ ug{ ; lsg5 .
 ; fwf/oftof &%) dl=dl=b]v !))) dl=dl=aiff{xg]:yfgdf nk; l v]tsf]
 nflu pkoQm dflgG5 . g]kfnf]dlWokxf8L lfq o; v]lsf]nflu pkoQm
 lfq x].

^=df6f]

nk; lsf] h/f w}]ulx/fxl ; Dd hfg]xbf sd; n df6f]df klg
 ; lk{5 . t/ Joj ; flos v]l ubf{eg]dlnnf] ulx/f]-sDtdf @=# dl=

; Dd_, lgsf; sf]/fdff]k] Gw ePsf]bf]6 df6f]/fdff]df]lg65, ; fy}df6f]sf]
lk=Pr= ^-& xg' cfj Zos xG5 .

&= hftx? -

nk; Lsf gof" hftx? lasf; xg]sø xfn ; Dd slx st}af6 ePsf]
b]vbg . To; h]:yflgo 5gf6sf]cfwf/df g]kfn]df ePsf nk; lx?nf0{@
j udf lj efhg ul/Psf]5 .

!= ; fg]-uf]h]cf]sf/_sf]

@= 7hf]-s]l n]drf]cf]sf/_sf]

7hf]w]ubl xg]n]drf]cf]sf/sf]nk; Lsf la?j fsf]dfu s]s:t/df j I9
kf0Psf]xbf k]k lj sf; s]b|uf]fj /ldf o; k\$]/sf lj ?j fx? p]kfbg
sfo{e0{/x\$]f]5 .

***= la?j f ; fg] ; do]]**

nk; L lxpæ]k]m]k]n ePsf]xbf la?j f ; fg]pkoQm]dlxgf kf]f-df3
g]xf]. oBlk la?j fdf kn]f cfpg'cufl9 ; Dd o; nf0{/f]lg ; lsG5 . t/
hj la?j fdf kn]f kn]pg ; ? ub5{o:tf]cj :yfdf la?j f ; fbf[lj ?j f
dg] ; efj gf j I9 xg]xbf lj z]f Wofb lbg' cfj Zos b]vG5 .

xfn s]l j if{otf lxpædf s]s]sf]dfunf0{k}ofpg g; Sbf k]k
lj sf; s]b|nufot s]l lghl g; {l df ; d] k]h]n]ofudf nk; Lsf,
?6:6s ; f/L To; df lxpædf sndl u/L j if{ofddf lj ?j f pkn]w u/fpg
yfln ; lsPsf]5 . o; n]al9 ; Vvf xg]l]f]sf s]s]sx?nf0{l]xpædf lj ?j f
g; f/L aif6]ddf la?j f ; fg{ ; Sg] ; lawf k]f]g u/\$]f]5 . h; n]ubf{
l]xpædf ; Vvf e0{la?j f g; g] ; d:ofsf]s]l]x xb; Dd ; dfwfg xg uPsf]
5 . t/ lj ?j f 9]fgldf eg]l]xpæsf]thgdf a9l vr{nflg]xG5 .

(= la?j f ; fg]t/Lsf -

nk; Lsf la?j f lj leGg lalwaf6 nufpg ; lsG5 . olb nufpg]hluf
; dy/ 5 eg]j ul\$]/ lawlaf6 nufpg'a] xG5, t/ olb hluf le/fnf]
5 eg]sG6/ lalwaf6 nufpg' pkoQm]df]lg65 .

!) = la?j f ; fg]b/l -

; fwf/0ftof nk; lsf]la?j f cGo krmklnsf]thgdf kl5 uP/ 7hf] xg]xbf Ps afb b]v csf]afbsf]b/l sDtdf !)-!@ dl6/ xg'cfj Zos 5 . la?j fsf]cfsf/ pkoQm/fVg airgl sf65f6sf]JoJ :yf ug{clgj fo{ xG5 .

!! = la?j fsf] ; Vof

la?j f ; fbf{la?j fsf]b/l ; fwf/0ftof cGo krmklnsf]thgdf sxl al9 /fVg'kg]ePsf]xbf kl{t x\$6/ !)-!@) afb l; knll/; ul/Psf]5, h; n]ubf{kl{t /fkgl %-^ afb dfq c6fp5 .

la?j f ; fbf{sDtdf !)-!% kl{tzt efn]afb klq ; fg{clgj fo{5, lsgls nk; ldf efn]/ kfyL 56[56]la?j f xg]xbf efn]afbdf krm nllbq . efn]afbn]kfyL afbnf0{k/fus0f pkn]w u/fpb5 . k/fu; jg sfo{xfj f tyf ls/fx?sf]d2taf6 xg]xbf au]fdf df]L 3f/ /fVg] JoJ :yf ldnfpg' kb5 . olb cfknrf]af/L ghls cf; kf; df efn]nk; lsf afbx? 5g\eg]au]fdf efn]nk; lsf afbsf]Tolt h?/t kbq .

!@ vf8nsf]tof/l

nk; l xpb]krmkln ePsf]xbf ; jkyd /yfa'sg u/l vf8n vGg] sfd sflQs dlxgdf g}; DkGf ul/; Sg' kb5 . vf8n vGbf # km6 ulx/f] # km6 rf8f uf]hf] xg]u/l vGg' kb5 o; /l vlgPsf]vf8ndf sDtdf ! 8f\$]kfs\$]uf] /dn ; txsf]df6f]df ld; f0{vf8n kg{k5{/ vf8n ebf{s/lj 5 0Gr prf0{xg]ul/ df6f]eg{k5 . olb vf8n vGbf df6f]df ls/f b]vPdf vf8n ebf{!-@ rDrf ls6gfzs whf]lj iffbl df6f]df ld; f0 eg{k5 .

!# = la?j f ; fg]t/l sf / ; do ll

la?j f ; fg]sfo{krf]-df3 dlxgdf ul/; Sg' kb5 . la?j f ; fbf{ knf66l . jf8\$]d2t lng' kb5 h; n]ubf{la?j f vf8nsf]l7s alrdf kg\$]f; fy}Ps cfk; sf]b/l l7s sfod /xg d2t ub5 . la?j f ; fbf{

sndl u/\$f]7fp-εGbf tn ; fg{kb5 . la?j f l; wf /lx /xf] eGgfsf] nflu n7[sf]6\$fb0{; t/ln]j flwg' kb5 . la?j f ; fl/; s;k15 sDtdf !- @ xktf ; Dd lbgx'Ps k6s l; rf0{lb'g' kb5, To; k15 df6f]f Ir:ofgsf] cj:yf, df} dsf]cj:yf x]l ; do ; dodf l; #f0{lb'g' kb5 .

!\$= dnvfb -

nk; l v]lj f6 /fdf]p]tkfbg lng kf^aul/s tyf /f; folgs dnsf]cfj Zos kb5 .

-s_ kf^aul/s dn -

nk; lsf] la?j f c6o kmkn la?j f εGbf l56f] a9g] x65 . ; fwf/oftof lj ?j fn]kmn lbg ; ? ug{cuf8l kl]tj if{! 8f\$fb dn / kmn lbg ; ? u/k15 @ 8f\$fb dn kl]tj f6 kl]tj if{lb'g' kb5 .

-v_ /f; folgs dn -

la?j fsf]plrt j 4l / lj sf; sf]nflu kf^aul/s dnn]dfq gkUg]xbf aif6] l; knl/; ul/Psf]dfqdf /f; folgs dn lb'g' kb5 . o; sf]nflu lgDgfg' f/sf]dn / dfqf l; knl/; ul/Psf]5 ->]7, @)^# _

l; knl/; dfqf

lj ?j fsf]pd]	/f; folgs dn -ufd_		
-aif_{	gf06f]hg	kmkn]7;	kf6f;
@	!))	&%	#)
#	!%)	!))	%)
\$	@))	!@%	&%
%	@%)	!%)	!))
^	#))	@))	!@%
& j f a9l pd]sf]	#%)	@%)	!%)

!%= dn xflng]; do / tl/sf -

; fwf/oftof uf\$dh sfo{lxpædf ul/; s;k15 dn xflng' kb5 . sDkf]6 dn xflnf vghf] ul/Psf]a]; gsf]df6f]f0{xNsf vshf]agf0{ df6f] leq ld; fpg' kb5 eg] /f; folgs dnnf0{af6sf] kn] / 5p]m

lsgf/f ; Ddsf] b/l sf] alrsf] efudf s/la !%-@) ; }dl=rf8f0 /
ulx/f0{ePsf]sh} f]agf0{cf}l cfsf/ t/lfn]dn xfn]g' kb5 .

!^=; #f0{-

; fwf/Oftof lj ?jf ; f/\$f] ; ?sf]cj :ydf lgodlt ?kdf l ; #f0sf]cfj Zostf
kb5 . la?jf ; l/ ; s]kl5 tyf aiff{df}ddf l ; #f0\$}f]cfj Zostf Tolt
kb5 t/ Hofbf ; Vvf df}d -r9- hij7, km km]lg]ajhf, km nflg]ajhf
; e] eP ; Dd l ; #f0{lbg' kb5, Tolt ajhf l ; #f0{ePdf km al9 nflg]
sd eng] km 7hf]nflg]xg u0{pTkbfgdf cToflws al4 xg hf65 .

!&= lgsf; -

olb au}fdf kfgl hDg] ; d:of cf0k/df la?jfsf]h/f slxg u0{af6
kx]hb}cGtodf dg{hf65, o ; af6 arfpgsf]nflu au}fdf plrt
lgsf; sf]aGbf:t ug{kb5 .

!* = uf8djh

km l6kg]sfo{ul/ ; s]kl5 la?j sf65f6 u/l kfj-df3 dlxgdf
uf8djh u/l eni/kft x6fpg' kb5 . uf8djh u/l dnvfb /v]l lr:ofg
sfod /fVg dnrl^a clgj fo{ug{kb5, o ; /l dNrl^a ubf{lr:ofg dfq
sfod g/xl dnf/kft lgo6q0f xgSf] ; fy}la?j fnf0{vfb tTj ; d] yk
xg hf65 .

!(= tflnd tyf sf65f6 -

vf ; ul/ nk ; lsf]af0nf0{kl/jlt} s]Gb0 cuj f k0ffnl cg' f/
tflnd lb0{sf65f6 ug{kb5 . tflndn]la?j fnf0{cfkm]rxf\$}cfsf/
k\$}f/df n]fg d2t ub5 .

; ?df goff lj ?jf ; fbf{olb lj ?jf clnf]5 eg]%) - ^) ; }dl=df 6[kf]
sfl6lbg]h ; n]ubf{sfl6P eGb tnsf]cfVnfaf6 gof-xuf cfpg ; ?
ub5 . ; ?df #- \$ j 6f ; xfos xufx? /v]l c? xufx? x6fpgk5{\$ aif{
leqdf la?j fnf0{tflnd lbg]sfo{ ; s] 9f# agfpg]kl/ldes / ; xfos
xufx?sf]rog u/l ; Sg' k5{.

;df !-@ aif{Dd sndl u/\$f]hfgl{eGbf tn knfPdf dgfx? ; do
 ; dodf x]l x6fpg' kb5, olb sndl eGbf tnsf]dgfx? j 9g uPdf
 sndl xfuf dg{hfg5 . h; n]ubf{s}sx?nf0{7hf]dsf{kg{hfg5 .
 To; h]; ?sf aifx?df Joj :yfkG klfnf0{lgs}Wofg lbg' kb5 .

lj ?j fsf]sf65f6 ug]sfo{lgoldt ?kdf aifgl lxpæ-dlxgf -kfi]-
 df3_ df ug{kb5 . ;fwf/Of tof sf65f6 ubf{cgfj Zos xfufij uf,
 /f]yls/f nfu\$xfufij ufx?, kn]af6 knfPsf xfufij uf, efrPsf xfufij uf,
 x6fpg' kb5 . o; /l x6f0{; s]k]5 pQm sfl6Psf]:yfgdf j f8fk]6 agf0{
 nufpg' kb5 . j f8fk]6 agfpg !M@=%M!) efu qndzM lgnf]tyf] rgf /
 kfgl kof] ul/G5 .

@)= kzf/Of lalw -

nk;L la?j fx? dVo b0{lalwaf6 tof/ ul/G5 .

-s_ lapm-laoff_ pdf/]]

-v_ afg:k]ts kzf/Of lj lwaf6

-s_ lap -laof" pdf/]]

g]kfnf vf; ul/ ag sfoffio tyf ag; u ; Dj Gwlt ; 3 ; :yfx?n]
 klxn]b]v lj t/Of ub]cf0/x\$]la?j fx? lapmaf6 pdf]/Psf]kf0G5 .

afuj fgl s]b]tyf lghl k]nk]n g; {lx?n]lj h'la?j fsf]pTkfbg
 sndl lj ?j f tof/ kfg\$]nflu ub]cfPsf]kf0G5 . o:tf lj h'lj ?j fnf0{
 '6:6s' elG5 hg sndl ug\$]nflu ge0{gxg]xG5g .

nk;L j xel]fo ePsf]xbf k]to\$ lj pdf kfrj 6f lj ?j f pdg]Kj fn
 /x\$]xG5g, To; j f6 kfrj 6f ; Dd goff la?j f pdg]xG5 . t/ ; a]
 lj pj f6 kfrj 6f pdg]; efj gf sd}/xg]xbf ; /b/ #- \$ j 6f j g]f{k]t
 lj pj f6 pdg]u/\$]kf0G5 .



lap /f]g]sfo{; fwf/0ftof df3sf]cl6td xktf blv kniug dlxgf ; Dd pkoQm xG5, o; /l /fk\$]lap !-%-@ dlxgf ; Dddf pldg ; Sb5, hg csf]j if\$]nflu sndl ug{of]o e0{; Sb5 .

-v_ afg:klts kzf/Of M -

lj pm afx\$ xuf, kft, h/f cflb af6 gofla?j f tof/ ug]lj lw jfg:klts kzf/Of lj lw xf]. t/ nk; lsf]sndl la?j fx? al8. , ufknl. lj lwaf6 tof/ ub{xcf0/x\$]kf0G5 . al8. lj lw c6t/ut 'lrk al8. ' c6o lj lwx? e6bf j l9 ; /n, ; knn lalw ePsf]xbf ; /sf/l tyf ghhl knkn g; {lx?n]o; nf0{kof] ul//x\$]kf0G5 .

ufkn6l. lalw dllo]; f08 ufknl. , 6u ufknl. sxl dfqdf ; knn blvPtf klg thgfTds ?kdf lrk j l8. sf]bfhfdf Hofb}Go9 kltzt ; knn xg]xbf c? lj wl ckgfPsf]vf; }kf0G5 .

-!_ lrk al8. -

atdfg cj:yfdf sndl nk;l pTkfbgsf]nflu w]; knn dflgPsf] lalw lrk al8. g]xf]o; lalwaf6 sndl la?j f tof/ kfg]sfo\$]kl/e tTsfng afujfgl s]b|uf]j/laf6 g}ePsf] dflgG5 . o; sf] ; fy} kefj lqsf lghl knkn g; {lx?n]o; lj lwnf0(g)ckgf0{a?j f pTkfbg sfodf hl6 /x\$] 5g\

lrk al8. ubf{Wofg lbg' kg]s/fx?-

-s_ ?6:6ssf]5gf6

?6:6ssf]5gf6 ubf{lGDg s/fx?df Wofg lbg' kb5 .

-!_ ?6:6ssf]pd] !-@ aif{; Ddsf]xg' kb5

-@_ ?6:6s kl; ln ; f0hsf] @-# lkn6 prf0\$]pkoQm xG5 .

-#_ ?6:6s la?j f : j :Yo xg' kb5 .

?6:6s la?j f g; {ldf g]pdf/Psf]j f kf]Jofudf kl5 ; fl/Psf]klg xg ; Sb5 .

-v_ ; f06:6f\$ssf]5gf6 M

; f06:6lssf]nflu ; a}e6bf klxn]dfpj f\$sf]5gf6 ug{kb5 . dfpj f\$ 5gf6 ubf{lGDg s/fx?df Wofg lbg' kb5 .

-!_ dfpj fϕ /fϕ ls/f gnfu\$:]j f:Yo xg' kb5 .

-@_ 7hf]bfgf knlg] laoff ;fg]ePsf] a19 ubl ePsf] ulnofk]gf j 19
ePsf] af\$] kftnf]ePsf]knlg]dfpj fϕ 5fgg' kb5 .

-#_ rf8f]km lbg]afϕ 5fgg' kb5 .

o; /l dfpj fϕsf]5gfϕ ul/; sϕl5 pQm afϕaf6 ; f0g:6ls lng'
kb5 . ; f0g:6ls lngsf]nflu utj if{knfPsf]xfuf 5fgg' kb5 . xfuf
5fggf a8 kfϕlnf]ePsf] /fϕ ls/f dQm xfuf 5fggkb5 . ; fwf/0ftof
kϕ; ln cfsf/sf]!-%-@ lkn6 ndj f0sf]; f0g:6ls l; sϕ/n]sf6l, d7f
agf0{5xf/ldf lr; f]enfn]5fϕl /fVg'kb5 . o; /l sfl6Psf]; f0g:6lsaf6
a8 ln0{sndl sfo{ug{kb5 . ; fwf/0ftof Ps ; f0g:6lsdf !)-!% j 6f
; Dd a8 lng ; ls65 . h; af6 TolQs}; Vofsf]:6:6sdf lrk afl8· ug{
; ls65 .

o; /l ?6:6s / ; f0:6lssf]5gfϕ ul/ ; sϕl5 ; f0g:6ls af6
!-!-% 0Gr ndj f0\$]lqsf]f cfsf/df kftnf]sf7 ; d] cfp]u/l al8·
rSssf]d2tn]kfϕlnf]cfVnf -a8_ lng' kb5 . o; /l a8 ln0 ; sϕl5
TolQs}; f0h j /fj / xg]u/l ?6:6sdf tf5l 6Dd ldNg]u/l a8 6f:g'
kb5 . ; fwf/0ftof lrk j l8· ubf{s/lj ^ 0Gr hldgb]v dfly ug{
pkoQm x65 . a8 6f:l ; sϕl5 j 8nf0{g5f]kg]u/l knfi6ls 6k j f
!%) b]v @)) ulh ; Ddsf]knfi6lsnf0{l/jg cfsf/df sf6l j flng'
kb5 . o; /l j flng]sfo{; sϕl5 ?6:6ssf]6kknf0{efl#lbg' k5{h; n]
ubf{?6:6s lj ?j fsf]j [4 /fl]sg hf65 . df6f]f lr:ofgsf]dfqf sfod
/vl /fVg cfj Zostf cg; f/ l; #f0\$]Jo:yf ldnf0{/fVg'kb5 . olb
g; {l Jof8 w]}; Vvf xg uof]eg]al8· sf]; kmntf 6oϕ xg hf65 . o;
afx\$ al8· u/\$:]yfg b]v tn tyf dflysf]efudf knfPsf dgfx?
!-@ lbg sf]c6t/df x]l x6f0{xg' kb5 . o; /l ?6:6sdf knfPsf
dgfx? x6fpg]sfo{lg/6t/ ?kdf ul/ /xg' kb5 . o; f]ugf]6f#Psf]
a8af6 rf8f]goffkn]f cfp] d2t kl5 . ; fwf/0ftof al8· sfo{u/\$:]
s/la @)-#) lbg kl5 pQma8af6 goff dgf cfp] ; ? ub5 .



lrk al8· ug[; do / ; kntf

df3sf]bf}f]xktf blv knu0fsf]t}f]xktf ; Dd pkoQm df} dl
 cj:yf tyf plrt Joj:yfklso sfo{; dodf g}ePdf ^)-*) klitzt
 ; Dd ; kntf ldNg]blvG5 k=j-s}#)_ To:t]k] /l t}f]xktfdf lrk
 j l8· ubf{(# klitzt ; Dd ; kntf kkt ePsf]kfOPsf]5 . - Poudel.
 2001 _

-@_ ; f08 ufknl.

; f08 ufknl. x? lalegg ksf/sf]xG5g\h; df ; f08 :6a ufknl. ,
 ; f08 6u ufknl. , / ; f08 lelgo/ ufknl. kb5 . o; ksf/sf]ufknl. df
 ; f0g:6ls #- \$ 0Gr nfd]@-# j 6f kf]6nf]a8 ePsf] k[]; ln ; f0hsf]
 ; j:Yo_ sf]6sfnf0{?6:6ssf]; f08df hf]8G5 . ; fwf/Of tyf o; lj lwj f6
 sndl ubf{; f0g :6ls eGf ?6:6s sxl df}f]xg' kb5 .

of]lj lw cGo kntkn lj?jfx?sf]pTkfbgdf Jofks ?kdf kofu
 ePtf klg nk; lsf]pTkfbgdf eg]Hofb}GoG ; kntf - & klitzt _ kkt
 ePsf]blvG5 (Poudel, 2001)



6k als{-

o; lj lwaf6 k/fgf gkmn\$ f efn]af0x?nf0{kmlNg]u/f0(5 . o; af6 s[fs tyf ; fdbflos j g pkefQmx?nf0{7hf]/fxt ldNg]b]vG5 . gkmlNg]7hf lj?jfsf xfufx? sf6l dl; gf xfufx? rf/l/ kg]u/l /fvl tl xfufx?df lrk al8. u/f0{kqM !÷@ aif0f g}kmlNg]lj?jfdf kl/0ft ug{; lsG5 . of]lalw kik lasf; s[|b|uffj /ldf k0f]udf cf0{; kmntf k] \$ k/fgf efn]af0x?df kmn kmnfpq]sfo{e0{/x\$}f]5 .



@!= kmn l6kg]; do -

kmnsf]/u hj kx]hf]xg yf]vb5 tj kmn l6kgsf]nflu pkoQm xG5 . ;fwf/0ftof sflt\$-dl+/ dlxgf kmn l6kg of]o ePtf klg s[fsx?n] ahf/sf]dfunf0{vbf0gdf /fvl efb|dlxgf b]v g}kmn l6kl lj sl ug{; ? u/\$f]kf0(5 . t/ klg kmn l6kg]sfo{ahf/sf]dfu, ahf/sf]b/l, tfhf lj sl ug]jf kl/sf/x? agf0{l] sl ug] eGg] s/fx?df lge{/x\$}f] kf0(5 .

@= kmn l6kg]t/lsf-

nfdf]j f+ jf lgufnf\$]f]; xfotfn]kmn l6kg]rng /lx cfPsf] kf0(5 . kmn l6kbf bfgf rf0 k6s nful glaulpf] gx/fcf] eGgsf] nflu hdlgdf knfi6ls, jf sk8f la50f0{l6kg' pkoQm xG5 .

@# ptkfbg-

j o:s af0af6 cf}t @)) s]hl kl]t j f0 ptkfbg xG5 .

@\$= e08f/0f-

nk; lsf bfgfx? ; fwf/0ftof # xktf; Dd TolQs}5fofbf/ sf7fdf
lknfP/ /fVg ; lsg5 .

@%= nk; l kmsf]j ul\$/0f

- s_ kmsf]cfsf/sf]cfwf/df - ; fgf]/ 7hf]
- v_ kmn kfSg]cfwf/df - cuf}] / k5f}]
- u_ kmsf]:j fbsf]cfwf/df - ulnof]/ cldnf]
- 3_ kmn leqsf]ublsf]cfwf/df - af]]/ xf8]

@^= nk; ldf nflg]dV0 /f] tyf ls/fx? -

-!_ sfnf] yf]n]/f] -Anthracnose_

of]kft tyf kmndf nflg]b'; laf6 xg]/f] xf] ; ?df kft tyf kmndf
sfnf]yf]nf bl]vG5 kl5 /f]sf]cfs{0f a9b}uPkI5 kft tyf kmnx?
slndf dng]kmndf sfnf yf]nfx? k]:t bl]v0{kmsf]ubl kl6 ge0{
; Sg hfG5 .

/f\$yfd-

!= 8f0yjh Pd-\$% @=% uf]d kl]tln6/ kfgldf ldnf0{:k]ug].

@= j f\$]ldSr/ ! kl]tzt lxpbd f kft dm\$]aj]hdf ! k6s, sf]knf
knfpg]aj]hdf ! k6s, / kmn nfuk]I5 ! k6s 5g].

-@_ nk; ldf nflg]uj f/f]-

uj f/f]nk; lsf]7hf xfu? km tyf g; {ldf /x\$]f lj?jfx?sf]
8f7df kj fn kf/L gf\$; fgl k%ofp5 . o; n]7hf]nk; lsf]af}x?df t?Gt}
c;/ gb]votf klg g; {lsf ;fgf lj?jfx? eg]t?Gt}c;/ b]yp5,
uj f/f]nfuk]I5 kft kx]ng] kft emg] ; Sg]/ cG]odf dg]xG5 .

/f\$yfd -

of]ls/f xfu f leq kj fn agf0{a:g]xbf /f\$yfd ug{hofb}sl7gf0{
xG5 . hj of]j o:s eP/ j flx/ lg:sG5 pQm; dodf o; nf0{dfg}; s}df
dfq o; sf]/f\$yfd xg ; Sb5 . xfu f leq /x\$]fnfef{nf0{dfg\$]nflu
lgDg pkfox? ug}; lsg5 .

!= K] fnnf0{; krf u/L, dl; gf] tf/ K] fn leq l5/f0{3f] dfg{; lsg] ; efj gf /xG5 .

@= K] fn leq dl6[] ÷ gēfg cflbnf0{skf; df rflk To; nf0{tf/sf] ; xfotfn] leq ws] hl K] fn leq l5/fpg]/ K] fnnf0{lrD6f0nf]df6f] aGb ul/lbg] / To; sf] j hf ahdf lg/lf0f ul//xg]. olt K] fn kgM vf] \$] el] pDf ls/f gd/\$] xbf kgM pQm sfo{bf] f] fpg].

#= olb ls/fn] w] } gf\$; fg k%of0{xfuf w]} sdhf] ePsf] 5 eGg] nfu] df xfuf g} sf6l hnfp' pkoQm xG5 .

\$= au] ffnf0{; w}; krf /fvG] af\$] k] 6 nufpg] cfl ulgk b\$.

@&= nk; l k] f] v] g M

nk; laf6 aGg] kl/sf/x? -

-!_ nk; ls] crf/ -

g] k] fnl ; dfhdf nk; ls] crf/ agf0{vfg] rng w]} klxn] bl] v /xb} cfPsf] kf0G5 . /fd] ; u tof/ ul/Psf] crf/ nfd] ; do ; Dd /fvG ; lsg] xG5 . o; sf] kof] v] g] k] fn j fx\$ l; SslD, bfh] n. , cflbdf ; d] /x\$] kf0G5 .

cfj Zos ; fdfu] x?

!= kfs\$] nk; ls] ubl - ! s] hl

@= lrgl - ! s] hl

#= kfgl- cfwf ln6/

\$= Nj fu, cn] l, bfnlrgl, ; Sd] h, @÷@ u] fd

%= cbj fsf] /; - cfwf u] fd

- ; fdfu] x? tof/ kf/L; s] k] l5 Pp6f ef8] df dfly pNn] vt lrgl kfgl ksfP/ rf:gl tof/ ug].
- rf:glnf0{kftnf]; krf sk8fn] 5fGg].
- rf:gl df nk; ls] ubl tyf c6o d/d; nfx? /flv !) ÷ !% l d g f ; Dd rnfph} ksfpg].

- o; /l tof/ ePsf]crf/nf0{; knf j f]ndfe/] /fdf] } j Gb ug].
o; /l tof/ kf/lPsf]crf/ nfd] do; Dd ; /lft /Vg ; lsg5 .

@ nk; lsf]df8f

cfj Zos ; fdulx?-

kfs\$]nk; l - cfj Zostf cg' f/

PNdf]god=:6ln sf]l8Srl - cfj Zostf cg' f/sf]

- ; j kyd kfs\$]nk; lnf0{/fdf] } ; knf u/l :6ln j f PNdf]god
l8Srl df kfgl /fvl pdf]ng]
- o; /l pdfnl ; skl5, To; nf0{af\$]f, laef cnu u/l ublnf0{56]
/fVg]
- To; kl5 ! s]hl ubl, ! s]hl lrgl, gg, tyf c6o d/d; nf
cfj Zostf cg' f/ /fVg] / /fdf] } d5g].
- o; /l tof/ kf/lPsf]ublnf0{; knf ef8f]f kftnf]xg]u/l knfP/
/fVg] / 3ddf ; \$fpg] 3ddf ; \$fpg j flx/sf] whf] d]nf]
g6f; of] eGgfsf]nflu ; knf ;]f]sk8fn]df8fnf0{5f]kl ; \$fpg'
k5{.
- ; \$]f] df8fnf0{ cfj Zostf cg' f/sf] 6sf] agf0{ knfi6ls
kofsl. u/l ahf/df lj sl ug{; lsg5 .

nk; lsf]df8f vf; ul/ sf7df08f]pkTosdf k/Dk/f blv g}agf]pb}
cfPsf]kf065 . vf; u/l u]dl0f ; dfhdf o; n]Hofb}dxTj /fv\$]kf065
t/ o; nf0{tof/ kfg] ; \$fpg] sf0f ; /; knf0\$]f]klfnf0{sd}Wofg
k%ofPsf]blV65 h; n]ubf{df8fsf]u0f:t/df sdl cfp]g\$]f; fy}nfd]
; do ; Dd /fVgdf ; d:of blV65 . xg t xfn cfP/ o; df lgs}; wf/
e0 /x\$]kf065 .

#_ c6o 3/]' kl/sf/x?

- kfs\$]nk; lnf0{kfgldf pdfnl t]h, d/d; nf cfbl /fvl crf/
agf0{tTsf]n vfgsf]nflu kof]u u/\$]kf065 .

- To: t)u/l pl; g\$]nk; lnf0{r gl÷e]hlsf]rf: gl df 8j f0{cfj Zos d/d; fnfx? /fvl l8Jafj Gbl u/l sxl ; do kl5 vfgsf]nflu kφf] ul/G5 .
 - nk; lnf0{leqsf]lj of x6f0{; }f0{cldnf]crf/sf]?kdf cG k/sf/df ld; f0{vfg]k}ng klg gkfnl ; dfhdf /x\$]kf0G5 .
- \$_ xfn cfwlgs klj lwsf]kφf] u/l kfpms08l lttf}f, cflb agf0 ahf/df lj slsf]nflu /flvPsf]kf0G5 .

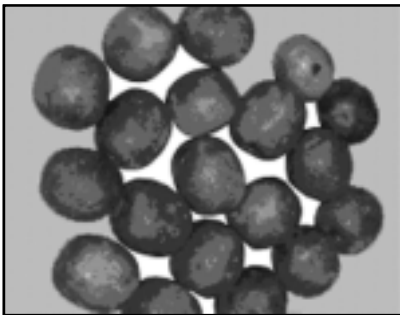
; Gbe{; lr -

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- Roxburgh, w. (1832) fl. Ind. Ed 2,2 453
5. klk lj sf; s]b|uff]j /lsf]j flif\$ kφlt kl}t }gx? -)%(.)^)^@.)^# ; Ddsf]
 6. >]7, ufkfn k} fb -@))% _ Joj ; flos nk; l v}l - j fuj fgl lj sf; sfo\$φ, j flif\$ lj j /of km}j =lg= lsltk/ .

ljifo ;lr

-!_	kl/ro	!
-@_	pTkl / kñfj 6	@
-#_	gkñdf Joj ; flos nk; l vjl	#
-\$_	dxTj	\$
-%_	xfj fkfgl	\$
-^_	df6fj	\$
-&_	hftx?	%
-*_	lj?jf ; fgI; do	%
-(_	lj?jf ; fgIt/l sf	%
-!)_	lj?jf ; fgIb/l	^
-!!_	lj?j fsf]; wof	^
-!@_	v8nsf]tof/l	^
-!#_	lj?jf ; fgIt/l sf / ; do	^
-!\$_	dnvfb	&
-!%_	dn xfnlg]; do / t/l sf	&
-!^_	l; ñf0{	*
-!&_	lgsf;	*
-!*_	uf\$dh	*
-!(_	tfnd / sf65f6	*
-@)_	kzf/of lj lw	(
-@!_	kml6kg]; do	!#
-@@_	kml6kg]t/l sf	!#
-@#_	pTkbfg	!#
-@\$_	e08f/of	!\$
-@%_	nk; l kñsf]j ul\$/of	!\$
-@^_	nldldfnflg]dVo / fñ / ls/fx?	!\$
-@&_	nk; l kzf]lg	!%
	; Gbe{; lr -	!&

ᑭᑭᑦ ᑎᑕ; ᑕ ᖃᑕ



ᑎᑕᑦ ; ᑕᑕᑦ ᑕᑕᑦ ; ~ᑕᑕᑦ/ ᑎᑕᑕᑦ

k\$fsz M
g|fn ; /sf/
s[if tyf ; xsf/l dGqfno
s[if ; r'gf tyf ; -rf/ s|b|

k\$fszg qnd M@-)^\$-)^%
kl:tsf qndM !
k[7 ; Vof M @)
k\$fszg k|t M^)))

db\$M
s[if ; r'gf tyf ; -rf/ s|b|
xl/x/ ejg, kNrf\$.
knrfg g=M%--%@%^!&, %-%@@@%\$*
knrfS; g=(&&-!-%@@@%*
E-mail : agroinfo@wlink.com.np
website : www.aicc.gov.np