Project On

ImportancB of Abhinaya in nangiyarkuth

Submitted by

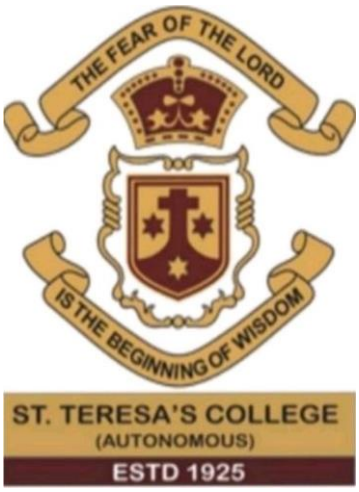
Gayathri. S

SB19BHA005

Final Year B A Bharathanatyam

ST. Teresa's College

DEPARTMENT OF BHARATHANATYAM

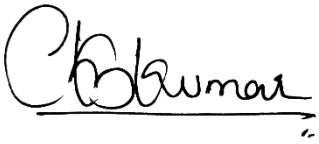


AFFILIATED TO M. G. UNIVERSITY

2019 - 2022

CffiIlACATE

Certified that this is a confide record of final year project on Importance of Abhinaya in Nangiyarkuth." Submitted by Gayathri. S (SB19BHA005) and submitted in partial fulfilment of the requirement of award of B. A. Bharathanatyam this college.



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IMPORTANT OF ABHINAYA IN NAN6IYARKUTH

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*Or*CIDcg:,*r*OOLCW ra1oo or-,fQJc racg:, *GiJ8 Or*QJru c ffi@-u rw:>0 0a1:> *(Q)*cz,L(Q.)c
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,VJ-9c (QJ.Q)f cg:, (illC(Q).Q)s w L®c@(Q.)1 CCZJ *V* c CZJJc | tW9w ·,VJ-9c QJc CZJJc | tW9w (illCS cg:,<9
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. **(illcoolfGLQ)(Q.)rcJ00 L®C@t'&cp fr-, @ ,VJ.9Cal.l9CCg:>(9 OCWrcJLE> (al.l9(Q,l))r-'**
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or-,fQJc@cg:, @ ,V),9C@C(ll)LW L(QJ.Q)5C®Lsfcg:,- (ll)rcJ SJr-':> ,VJ.>@-u fcg:,
*vc*rtW9w *r*wL(Q.)@ ,VJ-9c aU9ccg:,<9 *c(Q)*(ill*r*QJ*W*Lf6LQJ(Q.)ru 00 V c 0021QJCrtW9w
CIDcE9cg:,L,(Q.) @<9L(QJ.Q)CIDc 0 *c@cw v* c rrww · fcg:,*v* c rtW9w ,VJ-9*c@ccro* racg:,(Q.)1m:e:>:>
ocru r-,fQJc racg:, CIDL,(Q.)1 c*Q/)* cQJE9 00 c@L(QJ.Q)QJc ru r-' 1 L(QJ.Q)E9QJcg:,:>

*r*cg,*v*c*r*ao9w

ofr,CW<9 L(QJ.Q.)5CCIDLSfqp CCID Ul)(9(Q)(alJ.9Ccg:>(9((Q)Ul)(Q)LCIDCC?J(Q) \ EJCrcJ'l)(U) ,(Dce:>LC?J®WL2'00 8(9(Q)rcJ@. (Ul)(SfG<9CIDOr-' O(Ul)rc)(9(Ul)Cr-'g)(L(QJ.QJSW olJ"l'EJg)oo L® c@ce:>L(Q))rcJVc(U) 'lIDLE9Bfl9(Q)) g) o (IDLQ)ru ill9 'ce:>L,QJ)1 Ul)(OOLftLQ)(Q)rcJQID) LSfug) G,(e O(Ul)rc)(9(lr'LQ)(Q)rcJQID) CID<9LSfug) CQ)E.9 'l-QJL(QJ.QJ ce:>s cw OCID wmc0)a,C(U) LaU.9rcJg)CW L(QJ.QJ ClD w L2'oo s <9CQ)rcJoo · ((QJ.Q)rs cce:><9 o 0 crcJrwoo o u·l.{Jg)oo Q.Uc (QJ.Q)s w f cg:> 'lIDLE9tMl9(ID1 g) 'l) CC?J'lJ CltMl9w sfG(9'l-Q.)L®Q)rtDQ)r-' 8(9(Q)re)@. (ID)(9rcJ(L<Rcg:> o(.J"uCrcJ LrcJ Q.U@VrcJQ)rn QI)g)ra cce:> CID<9L(Q)rcJCCIDVc l tMl9w CQ)E.9 CIDc CIDQ)C(Q)ru CIDw L2'c ce:>s cw . O@(QJ.QJ Cl1of)r-' O((ID0(9 L(QJ.QJ?ce:>vCltMl9w CCID Ul) (9(Q) O((IDOO see O(rcJC<RLC?J Ul)(OOL(l)C(IDg)r-'(9 'l-QJL(QJ.Q.)5CCIDLSf qp ·ffiL@WCOTW (w L(QJ.QJ(IDw L2'Ccg:>LiuCrcJ 'l-QJL(QJ.QJ f cg:>VC l tMl9w 'l-QJLcmill9(9CC?J(IDw L2'Ccg:>LiuCrcJ oQJ)ocwcmru1 o<9 L(QJ.QJ f ce:>· ?ce:>vc l9-fl9W C(Q)UD<OOLQ)ce:> LrcJW O((ID8(9f@L(QJ.QJ®WL2JCcg:>L(J)OOO O((ID8(9?@L(QJ.QJ®WL2'Cce:>Lf(Q)C(U) o(Q)LQ)fvill9 \ce:>L,QJ)) L<RC(Q)g) S<9<®ce:>L®CW 'l-QJL(QJ.Q.)ce:>scw ocro wmc0)2Jc(U) . fqp CC?Jill9Q)(Q)rcJCce:>SCW (QMil90 (cg:> Q)(9L,(Q) 0 Q/)0 C(IDWL2'QID) · c@SCCIDLSf ce:> ocrcJ®WL2'00 OO<®LSf ce:> ocQ>C l9-fl9W ocQ>C lce:>cru ·CUDCQ>rcJcmMll9oru CUD@<9Sc ClDLS?ce:> 'l-QJLrcJ<(IDcru <9 L(QJ.QJ®w L2'cce:>cs cw S<9<Q>CC?JJC lce:>cru· cUDcoc@ L®C@SC®LSf ce:> Qf)CrtDg)<OOL®WL2'00 kl1)'l)fug) Qf)Bfl9(Q))Cr-'COlce:> ocg:>Lffi@LUDE.9 @ - reg:> CQ)r-'g) UDCQ>LmMll9oru <(QJ.QJ@Cce:>l 0 OO L(QJ.QJ®w L2'cce:>s cw · UDCQ)L® L5ce:><9 CC?J(Q)C l9-fl9W OJ:Gl'rcJg)L,(Q)),(lD O(Q)C)cg:>Cfu OJ:Gl'rc)g)R;l'(Q)(r-' 'l-QJL(QJ.Q.)5CCIDLSfqp · UD<Q>L®L(QJ.QJSW @ CQ>CC?JJC lce:>cru S<9C(QJ.Q.)g)CIDC(.J"U(U) S<9<Q>CC?JJC lrtDW - Ee CC?JCIDWL2'Cce:>SCW (Q)\cg:>,(ll)O(U) "05CCIDLSfce:> CCIDL(Q)L,Q) U1.l9O@rcJQID) Qf)CfGg) lr'LQ)(Q)rcJQID) (/)0Q) Q.U@C(Q)g) L(QJ.QJCSfG<95Lfu LQ)(U)<W@QJ)EJg)<lJLW s<9cf9c@cQ>ru<9 Q)f19QJ)g)@cce:> oqpscw ocro wmc0)a,c(U)

ce>r(QJ.Q)rQ)L(Q) O@(QJ.Q)Cl1o/)ru

roovcr£m9w

·CUDCQ)rcJ LaU.9sg)c UDVce:>ru L® c@Cf'.9Bfl9(Q)lcru cm ce:>@ru CIDCC?J(f9cg:>L,(Q)),(ll) O(Q)CC?JJJ:Gl'(Q)(r-' LSfug) 'lIDL®SLWL(Q)@ "(Ul)(OOL®WL2JQID)

. [ ]o(QJ.Q)\ ru um@ @(9L(QJ.Q)f 00 <lJC) £Ul9 W

CCIDITTce:>UJ.9 \cg:>L,QJ)) "((ill(Q)rtJL(QJ.Q)SW L®CtZHID)CCZJCZJCW L®CCZJWCO (WQJE9
foovc1£Ul9w oc@LE9£Ul9<ID)H;t8'g)r-Gc@r->1 @r-' ®L£Ul9Sc<ID o(Q))H;t8'g)L,<IDru(J)a1

Vf ffiwQ)Œ rce:> ocms c cg:>g) o(Q)1H;t8'g)QD)Li®(Q)1t'fuVfr-, ur(QJ.Q)LUJ.9r PG,(Q)
'o<ID)H;t8'g) o lce:>Lill9C@'lQ>Sfee:> scoo@C(QJ.QJ.9LQJ@ 'o<ID)H;t8'g) QDITTcwocoosru
vf \<ID' o CID)H;t8'g) ill9 \ce:>L,Qf)) d1cf0rarwoo - ccmruUDc(QJ.Q)v@cr->
oCTW IU9 uC9W-,., Rc (QJ.Q)g)r-, ,cacm(U)L,<IDru (/)a1 @<9L(QJ.Q)E9QJce:>g) ocfficmC9ru LUD(!ju
OUJ.9CJU(J)CW @<9L®LSc@ ',cuf PGL(QJ.Q)fv<9 @<9L(QJ.Q)UJ.9 ?a1cQJg)LQ/)

' r-' UDrucru @<9L®SCCIDSC9 8(9(QJC)£Ul9W "((ill((IDUr-' O((ill{QJ.Q)(9foovc)£Ul9W

W(9L<ID(ill(00 L® W LalQID) ITTcg:> ill9CQJ(r-' <lJC) £Ul9 W o((ill(QJ.Q) (9f00 <lJC) cg:> cru

WC9L<IDUD(CIDUr-' ITTce:>UJ.9CQJ(r-' VC)cg:>Cfu ·osc®LSfqp C@ce:>SCW(Q)\cg:> O(U)
UDcooL®WLa100 Lsf ce:>csc§g)£Ul9recru(QJ.Q),w LOOUJ.9@ Lsf qp E9<9£Ul9®wLa100
omLru ,cacw wC9£Ul9LUD@u oce:>lJ(Q).Q)c (U) 'o 1 QJc u-uOO 'ocg:>lI" cru 'o ce:>LU)oOO

rUDcQJru r LQJ<IDru oo 'lID LE9 ce:> LE>ru g)
mLruLru uer-> cwL(QJ.Q)<ID1H;t8'g) o<IDLQJru ill9 , ce:>L,Qf)1 ,v..u@ Q_l)ce:>LQJc ce:>c@ce:>
c ucce:> OOcswLor-' QDCOO LQJ<IDruoo Ql)rucd1c@ o<IDLQJfuUJ.9 \ce:>L,Qf))
. (rtJL<IDr-' fqp c,@ LCTWIU9(WSC®g)LUJ.9LU-UCQJg)LCZJ QID)
ocID1c@ 'lQ)L(QJ.Q)CID)H;t8'g)ITTC(ill(00 sru <lJf \(Q) Q_l)dG g)@ . ((illQ)L®L(QJ.Q)SW
fce:>vc1£Ul9w L®c@,QJW®Lsoo, o c@LE9£Ul9<ID)H;t8'g) @r-' call9r->

cg,(mAID(ɗ m, oUJ.9Q)m,ru Qm)

. CUDcce:>Cr-'g)CUDVS C<ID <IDC9Cg:>Cr-'g)C(QJ.Q).9U cce:>
o1raf0crace:> ' cqpe9omclU9g)UJ.9f0voo occms<9cE9ce:>LQJCce:>c@ce:>
occms<9cQJcczuQJcce:>c@ce:> oc@L<m@u ·ffi@ce:>L<ID1ruvc(U) ,v..u@ 'lIDL®@LW UD@u
@cg:>(/)o Q) o((illC§ (9£Ul9r-'fQ)C@cg:> c,@ "L®CczJ(IDffig)LruW Or-' o ({QJ.Q)fcg:><lJC) £Ul9W
Q_l)CfGg)CIDL£Ul9S((Q) Ql)COO L(U))alQID) ocruSC®LSf qp O({QJ.Q)fee:>
'lIDL(QJ.Q)@ffi.il9@c@ce:> E9QJcg:>g) · cmcaU9C@1 wcmer->1 ,V.>L(QJ.Q)f ce:>Vc1£Ul9w

ru1 6ru3 , acfbJC/cHTlJ1 1, **a0 ,** n.-O')SJ <mJS6ID31CID cfbJSJo6ll.16m'3 1am
m6m'3j Jrncfbj arrm <mom6n91'oJm0 JCID1 @.!lJCID<m6 ruro6rm m6m'3j Jro02) 0 Jrn
gQa, pY'Jo **6'1"@. *63a>J* .!l.JSQ6m'3rm m1 CID1am cfb J6m1c006ru Jam gQruro1am**
n..J rnc006o ffi)Jw1c006cfbCID6 6. atn..JJ roruJ*n.n*mc006o ru6@cfbJ6'f"@
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an..JJCID<mJCID1ro1c006mo gQ<m1m cfbJa>6mo.

BUlH2)o c£bJaJrm <m1© J(O'(O)Jc£b

m6m'3j Jrn cfbJ roYm1@ *63a>J* rucfba<sB'2lJ6fO B(1()'2lo cfbJarrm. <moun1a J'2lo
@.!l.J<ID<m <moc001roYm1ro1 0ro1 Jam n..Jcm m1 1 ru1 1ro1c;tJ6a6'tls8b1am
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Q.!lJ & rmcm n.-O')rm<mJ QcfbJ 6'f"@ .!l.JJS cOOJarrm n.-O')rmJo n..J OCIDJ rmJ.

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msJruo '2lmCID1am gQcm msrmJ. 2021 *«3Yg)(f)* 6,7,8 (O)ICID<m1cfb 1am 6)6)cfb(2)Jcf}6)
'2lmCID1*am* «3'@6f0 <moru (Tl)Jmo gQcm mSrmcm[2]. 6)6)cfb*0J*cf}6) 6)6)ruB1cfbrm roJ'2lrm
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ffi6ID3j Jd,[3] «3'@6f0 gQcm <moru<ma>1c;tJ1..gdcm. ms6ru o '2lmCID1 6o
<mo n..Ja)6mCID J6rO gQcm <moru<m ro1 c;tJ1 cm.

(/()Jn..Jo cfb131CID nQJd(O)J.!l.J1 n.-O)rm <mon...Jffi)rocm1mJ a Jn91OJ<m1ro1CIDJQS
(<moc001roYm1 ro1 CID6@s) (Tl)6YQIJCIDmaroYm Jsm6 6II.Irrw1..gJ B(I0) o
cfbJ roYO) ru<mro1 c;tJ1 Jam a0J c£h9:jO cfb13c?6)(2)rm <moo16't'OYID (O)mJffi)a) 1 <mo rum
<mo ru<mro1 c;tJ1..gJ<mJ6mat<m B(/(0) o cfbJarrm. gQ'D nQJd<mJ.!l.J1CID6@s
n..J1*CTllJ* o c00Jro6m@ t<m m6m'3j Jrn0 Jrn.

n..Jcrmarri, QQcfh0Jcfl6) n-O}(ll)I gQ 6UY3 1<03 m1(ll)Jo cfh131@ lcfh0Bln..J1cfh<IDJQS <IDJ 1cg@JQ.Jcfh Jo «r@fZJll(ll)J@ cfhJ3CTO.!l.JJcfhj JCOJQS m1@cg Ul)6UY3 Jo cmo mJ CTU co1-31 cmo n..J@6l7J J m6UY3j J@ gQan cmo ru <mco Q1) cg<IDJ (/)j0 J cB6)1 .!l.J13@?i:::JSJroYm1.

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cfhl.Ocfh 1<ID1Q CTUl@l<IDJo m6m'31<ID(l)cfhJamn1Q CTUl@l<IDJo

cfhL.Ocfh 1@1@QJ CTUlcm1

n..JJ0JQ.Jo

MAIN NAVIGATION

(TU J 0J nD1 cfh0

CTU J crurorm1cfh o

CTUJo<TU cfhJC01cfho

LQ)C0JOOC CQ)C<JU0 W)(Q)Lill9Crucscw "0700500 OQ)fUOCIDrMUIDCZJL,QJ))
C(Q) WQ) OQ)(cg>r-')QJ)EJg)(l)LW 0(9 ,vJLrDC(Q)l_J'-' W)(Q)L®Lcg> W
O(fUW<JUC(U.Q)Cr-'):> O((ID(WQJ)) Ri-'QJ):>LrDM L®WfuQ)C(Q)LfUcg>
00:) (Q)({ZJ 0 @COOL5(cg>. CE9cg>0700500 CIDCCZJ(Q) ,(WQJ)r-') 8(9(Q)fUQID)
rDLW)©-u .oQJruoaorM L(Q)ru<µcru.'.oR;t9)cCZJ:><JUM(Q))LCZJ.'.oQJru oao rM L(Q)CZJL,QJ))
· CW)CQJL®CW)(!ru 00l_f'-'LCZJ ra
SJru :> 00 *COO*LQJ*QI)* s <9*C*Q) ru 00 · s :>*C*® *W* cm*(Q)C*<.OMll9*COO*LS*CCg*,® c E9cg0
S<9C®LruJ(Q) QJJ0ZIL®Q) CCZJlffiLW)C(U)L,(Q)),(W
CIDC06TUG,r-') LE900C(Q)L®fuQ) 0700500

. **(W)(00CCZJ(Q)8) lru**

kW©-u LE9cg,07cg, ffioo racg, aoc01woo QJ)cg>L,(Q)) ,(W o 1 ffiLW)CM
CIDCCZJ@IU9r-') O((IDS(9(E9cg>LQ)Ccg>C@cg> LE9cg>07cg> O((ID8(9(E9cg>LQ)Ccg>C0700500
® c QJTT9 c0ru1 · *C*® c0 (Q.I) rM ,v_> L(QJ.Q) E9c *aO* ra0 QJ)cg> L,(Q)),(W *(QJ.Q)* cs® <9LSw :>
ow cmw ® c0 *(Q)* c 1 rnru1 L®LE9 cg,07cg, oc@Lcmru<9o *CCg,* L(QJ.Q) ffi9(!ru
0 c5LW)CQJL® C@L (QJ.Q)5 rou rac cg, *CQ)E9* W)CQ)L(Q)Ccg>CCZJcg>L(Q))rucµcM
O(QJ.Q)LE9C<:G3r-'Q.U9r-'(9 *0(* 50 O(@LE9cg>@cg>. oocswlr'LQJ)(l)E)r-')
cO1ffiLW)CM aoc0scg,ru) S<9CQJC0.>Ri-'CQJcru ocraLE9cg,rarn0:>fucµM
0 <9,v_> L(Q)00 or,,?*Q)*c racg, *a,* aU9c cg,<9oru? *Q)* L(QJ.Q) eweµc *Q) (QJ.Q)* C9
0<9,vJLall9c5?woccnW:>L(Q)r-' ·o l(Q)L<JUCM 0700500 c0rufQJ l(Q)L<JUCM
0(9 ,vJL(QJ.Q)r-'fQ)C@cg> LMC W)(!ru LE9cg>07cg> CIDCCIDWrDC§IO(U)
® L,ill9QJ0 ,(illLrDoo 0<9,v.> L(QJ.Q) E9QJcg>:> *COO*ra :> L(QJ.Q)cg> c ra :> c racg,1 *QI),*0
"LE9cg,07cg, **cOruf** QJcracg, lQJ)\E> *C(Q)W(Q)* 0<9,vJL(QJ.Q)E9QJcg>:>

lJOJ1,(W @(9 L®LE9ce,07ce,

Q*I*)Em9 lffiLWL(Q)Cr-') L,(Q)),(W @<9L®LE9cg>07cg>

OQ)Ccg>,(WO(U) 'o)(Q)L<JUC(U) '@cg>

rn *Q)* :> *(Q)*Lru L,

LOIU9)@(9(9

*QI)*cg>*(QJ.Q)*<*µ*Cru

LO@C)(J)

m1rm (TU Jn.D1 *ar*>j (()..!l.Jffi c66) <mom ruw1 (TU '21ll Jm6m3*c.ib* ams1(ID 01cfhOJJ g
ln..Jar>1<s<IDJ@1ro*J*(TT)*J* cfhJ31cf)6)*JQ'O'(O)J* ar>ffb 1. @@cfh@cfhJ31cf)6) 1 @1 ar>1cfh6YO'(0)
ln..JJru16m j0 J6TTsJ@1ro6(TT) cmoruro cmoamcfho ar>1 ro6ruJar>1 ro?dJ3Jcfhc.ib,
cfh1 1?dJ§, 63J3dbar>Jfilfil , 'DQ'O'(O)J ?dJ§, cfh6roarrm1?dJ§ , (TT)16m3@m
ruj*ar*>j rru*ar*>6m3 J<ID cfhru1*ar*>cfh*c.ib* ro..!l.J1 1 3*J*6'f@. cfhJ31cfhJ6YO'(0)*Jar*>ffb 1
cfhy>16YO'(0)J (c3lg3cf)6)LO (()..!l.J1 136filfil ..!l.JJ(()Jcf)6)b ..!l.J1eJ (TUl(O')rcfh 1
cruru1acmrB10J<ID CTUJ(TT)1W j 0J6f0 rusacf)60) JSOJcf)6)J36
<mo'2:*rllJ* cf)6)*J*31(ID '21ll(ID *J*ascm. (()J0 J(ID Q1) cfhLOQ(ID gQ(O')1 rudarrm0 Jcf)6)1@cfhJ6TTsJ
1905- cmoruro ro..!l.J1 tn..Jcmrru ar>0J@ CC3Yg3cf)6)LO@J6f0 'lcm1roJ0ru1 @o".
(c3lg3cf)6)LOJcfhJro1 cfh 1 0@gJro*J* cru*J*ln..JWJm ruj c6<ID1ar>0 J6fO
acfhJ3CIDcf)6) 0JWOJ1cf)6)J31 Qcfh.OJJ(() j roJaScm. acfhJ3CIDcf)6)Qe.J cfhLOcfh 1
cmoomro1cfh9fo 0 JWOJ1cf)6)631@6@s cfhru1n.nd B@arrm1e.i6o
OJjc6<ID1 1ru1ar>arrm1e.JJo m1ro6mJ<IDcfh ffi)JJWlffio Q..!l.Je.JJarrm1. acfhJ3CIDcf)6)
n..J1. rru.ru1 mJsj CTUonQJarrm1m roa6m3o Jdb n..JJar>1<IDcfhLOcfhc.ib CC3Ygrucm j 0J<ID1
OJ(TT)a?dJc.ib cmoruro 'ru1cmJJ01tar>db', 'cfhJ0Jrocruo<sruo' ()1)1
(ffig3cf)6)LO*cfhc.ib* (()..!l.J1 *J*.

CC3Yg3cf)6)LOJro..!l.Jm@1 0J lar0 rrular>1cfhc.ib
cmoruro6@SCTUJ(TT)1 Wj o cmoo1@1 13Jfilfil<m. cfhLOcfh 1 arun91o Qcfh3J(TT)ar>1 e.i6o
ln..JWJm n..Jffh run.n1 1roJ(TT)J. ln..J0JQJroJ<ID cfhLOcfh 1 cfhe.JJcfhJro1cfh 1
tn..Jcmrru ar><IDJ<ID ms1<IDJ6f0 QcfhJ3Jroo m1e.Jcfh6f0 On..J1filfil<IDJQS n..JJtar>1<IDJ<ID
ru6YID..i1@Jro cfhJ*roar*>j J<IDm1<ID'2:rll. cru*J*aBd 6m, rB1 0 6ar>e.iJ<ID arun916m3*c.ib*
@cfh31<ID13J6'f@. roJ CTUJ<IDarrm1 tcm1cfhdd6m arun910JJo @cfh31<ID13J6'f@.
6TTs?dro0 6n..J1filfil<ID*J*Qs cru n.nms1@J<IDJ <ID*Jo* arrm1@1366'f@.
<mon..JJ rorucru1tm1cfh Jro 1 cfhLOcfh 1 ms10Jro1 ln..JWJm1@J6fO ..!l.Jruo
n..JJOJcf)6)J31. 0JffbJ o ru1d6mJ ffiffiiJJ ar>1 ro1@6@s cm1n91j. (ffigBjCTUOJm
(TUlaY>laOJn916m3Q Jo QQcfhcfhJ(()Jo Q..!l.J JffiJfilfil CTUJ0roLOj o «r@OJ(()JQS
arun916m3 1 m1rrn OJjc6(0)0JcfhJ(TT)J6'f@. e.i 1ar>, n..JJ6YQ}JJe.J1, ro()dcm1,
ar>*J*s 6m31<ID aru n916m3*c.ib* <mo mm j cru JwJro6m0 J@1
cmo ruar>ro1 ?d1 ms1<IDJ6mru*ro.* ln..0 6QJ<IDJ<ID 0@gJro*J* cfhLOcfh 1
cfhe.JJcfhJro1@J6fO cfhe.JJ06TTWe.Jo tcm1aBru1. cfhLOcfh 1mdarrm0J6fO cmo ruro6@s
a06l.Je.J. mdarrmJWjJn..J1cfh<IDJ<IDJo acru rumo cmo m6 1 1 ro6(TT)J. rrutar>1arun91
cmo@1mwarrm1 crunndB<ID tcmtm CC3YgcfhrorB11 cfhLOcfh 1ms1@J6fO
acfhJ3cmcf)6) cru*J*m1*ar*>1 roJ . cfhLOcfh 1 roo(/)arrm
OJjc6<ID10JlBn..JaY>1?d1 13Jfilfil <mon..JJ roruo ..!l.J1e.J CTUlaY>lcfh 1 63(()J J6ff)

a.!l.J mJs CTUJ@lB. mJ\cm1arun91ruJo n..JJ<Z>Jn91arun91ruJo rua, a>o(f)«mJ> «3Yorucmro1?d1 1roJCTnJ.

0 CIDJ romflmQO ln..J'DCU9 c£h J roJ n..J0J CID cfhL.Ocfh 1CID1 Jo mYtcm1cfhun CTUru1ae@n910JCID OJjcB<ID10JlB n..J<m1 ?d1 13J
n.y)CTn<m1m QO Q<m 10JJ6TT) a0<03n..Ja>J0Cl>C@1 <ffi93c66)l.OJcfhJ<Z>1cfh Jo
cfhL.Ocfh 1 cfhJc£hJ ro1 c£h Jo. cfhLO cfh 1 n.(f)CTn J <03n..JJ roJ c-8102D a>J @s 0J lcmo cfh CIDJ 6TT) n.(f)CTn wJ ro6m@CID ru @ro c£hJ o OJcmJ cm@CTn «3Yo ru a,
<m6m3 JQS Q.!l.JOJQ<mffi:>1 Jo ln..J6llJ 0JCID CTUJCTn1W j rorm1 J QS
J(O)Jc66)1. cm **'D cfh J<Z>Jn..JroYm1mQO CTU0CTU cm a0QJ cfh 1 Jo**
CTUlcm1n..Jffi:>J 1 rorm o CTUJC@cB<ID0 J CID1c66) Y'1Q'OY0)1ro1 c66)JCTnJ. mJlcm1CIDJ@s mdrorm mdcmJ mJsJ *crr@)* Jn..Jm 01c£hru c£hLOc£h 1 QCID01) ru1(@J ln..J*(@(11)*(0)(2) JCID c£h J roJ n..J rorm1 m «3Yo cmJ j .!l.J J roJcm n..Jc£hroJCTnJ.

CTUlcm1cmcB6) ln..JJ wJmj OJ filfil m6m3j J Cl>cfhJ «mJ> n..JJa,6m0J CIDJo
cfhJcJ.!l.JCIDJQS cfh CIDJ6TT). 0JcfhJ@1mCIDln..JWJffi0JCID b3<Z>J
cfh J<Z>Jn..J0J6m1cm. cfhl.OJCTUo6llJCTW1CIDJCID a Jcfho Q.!l.JJ JCTn(O)
ffi6m3j Ja>'212lCIDJ6TT). 0JlBcfhUD CTUJd 00JCID 0JQJJ@1mCIDo
n.(f)CTn1ru CID1 J @sCID J 6TT) m6m'3j J Cl>cfhJ rorm1<03 cfhLO c£hun «3Yo ru cm ro1 ?d1c66)JCTn cm. cfhJ OJjroYm1 n.y)CTn m1 CID1<03 ffi6m3jJCl>cfhJ«mJ> «3Yorucmro1?d1 1roJCTn m6m'3j Ja,006m'3un acfhro rorm1 J . a0a scm, ru jru3«mJ>, n.(f)sm JS, 0Jro1a6m'3J«mJ>, n.y)CTnl 006m'3 Jo cfhJ0Jrom JCl>, cfhru1CIDJCl>, cfhJY'JCl> n.(f)CTn1 rrun6m'3 1@ m6m'3j J a, 00 6m'3 Jo cfhJ «mJ> msrorm Jm> m1CIDJcB<ID@ ?d3ru roJ CID1 a>JCTnJ. ru jru3o m6m'3j Ja,0ororm1@ 1 ro1c66)J31 m6m'3j J ro'212l, cfhJGYm.11c66)J31 m6m'3j J ro'212l, CTUJ@lBJm6m'3j J ro'212l n.(f)CTn1ru a, <ffi9Bj cfhJ «mJ> m6m'3j J a,cfhJ «mJ> «3Yo rucmro1 ?d1 1 roJCTn CTUlcm1cfh J6TT). cfhJ ru drorm1 n.(f)CTn m1 CID1<03 cm1c£h Jo «3Yo mJdo mJ (O'Q)cfh0 J CID1 «3Yo rucmro1 ?d1-3J ru CTn m6m'3j J Cl>cfhJ «mJ> n.(f)CTn cfhJroJ n..Jo c£hJ o cfhY'1CIDJo a<mJOJo 1Cl>6m<mQCID amro1 QcfhJ6TTs1a>JCTnJ. «3YomJ Jmcfh
n.y)CTnm1 CID1<03 «3Yoffij o m1CTnJan..JJcfhJ0JCID1a>JCTn ffi6m'3j JCl>cfhJ rorm1mQO
n..JJ mroJcm.oJ mo «3Yoamc£ho c£h J c£hJ ro1 c£h J@s CIDJo <ffi9.!l.J J roj <lllJroJ@s CIDJo
CTUJ0Jn.Dj ln..JOJCl>roYmcfh<Z>JQSCIDJo le@0n.0 0JCID13J6TT) CTUo@ru1 cm.
ln..JCTU1rw a0Jn.n1m1CIDJ30 ffi(l)roYO)cfh1CIDJCID le@10<m1 m1a,0 n..J6m1c66)a,
mSrorm1CID (f) aru c-816m6m'3 J6TT) m6m'3j JCl>cfhJ rormin QO <ffi9wJm1c£h

. ((il)(Q)wlftLQ)(Q)rDQID.> ?ce:>vc)ru29W L®CruL(Q)ru vru@ LE9£W9(Q))RHJ'g) L,Ul)@u ra@cru Lru<Q)L(Q) 'vf(il)ar>cnru "Lru29S((Q) LCW)2'00 fcg:,vc)ru29W Ul)(9(Q) L(U)CIDru o cs (f}u LQ)ce:>lf(U) o r(Q) lR;tJLQJ) S<9CCID02JQ>Clru29W LQ)WLS@ LQ)Ul)g)rD ·f LW L®CE9ce:>@ ofans<9cCID02JQJCru29W L5<ce:>cl0Mll9cce:> ofans<9<CIDLQ)L(Q)?rww QJJill9CIDCQJCW OOW@ CCIDE9@ L(.QJ.QJO@ vcfrww Srag)@g) racs?ce:> LSLOOra

(l00l-0l6 **) 0:ZJQJC lEM29W L5l'W((QJ.QJ.9(qp·**

Ql)cg>uQ)1,(Wra ccg> rew @(9 L(Q,U))rcg>Vcr Em9w

· LWUJlW'lJClE>Lru f 000 ra<9L(.QJ.Q)racce:>cQ>c(J) a,@ (cill(Q)L®00 VC)tW9wCR;tJ(9. 5pr,(9wC0"lQ.)(Q)w(r-' o fraL(.QJ.QJO"lQ)'l)QID) Cffi(fr-, ? cg:> VC) tW9w Cra L(.QJ.Q) ra(ce:>(Q)((l) cg:>Q)C (CJ,(LU VC) cg:>Cfu(Cfu Vf Ul)02JOO scooracrul9LQ)@ L(.QJ.Q)r(Q)\(Q)Wg) S<9cQJC lce:>crurumc@ V?Ul)02JOO 1786 · <Ul)<Q)L®CE9ce:>LO"lQ.)'lJC lE>Lru L®LQJE9oowraL,Qf)LQ)r-' **Q,@ VrDLUl)©u L(Q)(U)L(f)'lJC@ ' raQJ)(9(9 oraCTW9@Crace:> ' LQ)L(/)**

o raCTW9) c race:> ·C lft LraL,Qf)LQ) ru E9<9ce:>rR;tJLQ/) 0 <9,v.>(Q) cce:><9C(.QJ.Q)csCce:><9 o l wcmcru) Qf)ru29R;tJrug) L,(Q)),(W VClce:>cru@cQJ oE9c<:mru<9<9 l,Qf)) (il)(Q)LCIDCW)Q)CfuOO OSCCIDLS fcg:, L(.QJ.Q)raCTW9@Crace:>E9Q)cg:>g)

(LQ)ce:>L,mJL(U)r-') Ul)(9(Q) vru@ C(J))Cill9g)((CJg) 0(9 ,vJL(.QJ.QJ ?ce:>vc lru29W
166 - c(Q)@ O(Jll)(J))WOr-')800 oof LO(ce:> W<9L(.QJ.QJ?ce:>vc)ru29W
· *cUl)cQ)ru* L®c@ancrmoo <Q)E9 ?ce:>vc lru29W L(.QJ.QJITT.U(J))
Lfv Q) (Ul)'l) fug) o (Q) 00 Lill9 fr,ra0 VLW o((ID ll i (ill9rug) LQ)r-'g)
Ul)(fr-, O(E9cg:>E))((CJ Ocru Q)cce:>ru)s 00 o 5CCIDLWLUUC((Jg) .((il)((.QJ.QJ fil.l9(9cg:> vru QID.) L®C(Q)00(wL(.QJ.Q)r-'?Q) eracg:> a,@ or(Q)L(Q),(LU QID.) CIDC@cillL2' o(cillLW LE9tW9(Q)<:mg)(U) 0<9,v.>L(.QJ.QJscanLS?ce:> o <Ul)LW L(.QJ.QJam LWLruanQl)OO 00cCIDCCcJ(Q)CCcJ02JQ)Cf ru29W (il)(Q)wlftLQ)(Q)rDQID.> ?ce:>vc f ru29W L®raLW Ul)(fr-, owesfGucWC(Q))RHJ'g). CIDC@ce:>CIDCill9'lJLW L(.QJ.QJ(Q))LQ)fv

. CCIDLQJCce:>C@cg:> rDL, CW @(9L(QW@(cg:>(Q)((/)
"LCQWSW ot)ru29 QJOO LCQW(Q.>)R;t8' 01cwo?oosru cµfQ/j\<ID
l66 · ccro lR;OLQ/) SC9<QJrDLUD@u VClrul9W CR;UC9 'cµc1ce:>cru QPS<ce:>
'cµc lce:>Clu rumc@ V f UDCZ12JQID) -r L@L,Qf)LQ)r-' L(QW@(cg:>(Q)((/) cg:>QJCCZI
<µclce:>cru ? cru cµfUDCZ12JOO ·oww L®S<OO@Crul9LQJ@

<pc f £W W W9V ruoo.

Ql)Cg:>LQ)CCg:>C@Cg:> WL,@CCg:>@(U)

· <SWL @ rDLUD@u 0 QJC OO QJ< ru QP QJfcrocrucQJ<(J) @C9S6-v66
'OQ)(cg:> Q)(r-' cg:>QJCCZI VClce:>Clu(Cr-' V f UDCZl2JQID) 8(00@C&fl9LQ)@
@C9l66 ·wruc ocw OOCQWCIDUr-' CQW(n)S(f}-u 8(9(Q)fU@ ill9C(n)<IDUD(B-u
< L<JUrDVLW LE9ce:><&fl9QJOO 0 wru L, <QJ W<r-' SC9<f9&fl9(J)C CCIDLce:>1
®LSf cg:, Rcf9 cg:>CQWLOOOO 00<CIDWC9rul9LUD@u d ruwa>ru oorwcsoo
o@)c@ Ql)&fl9@1cruc01ce:> L,@1 "LCQWSW ot)ru29 QJOO LCW®ru
ocUDcwC9L@ru -r Lcw r oo orrusc®Lsfce:> ocCQWfcg:> UD(9@ LCQW®cru1
®LU1u(9. < LW LCIDS(OO@C&fl9LQ)@ L®CE9ce:>@ O((ID8(9((IDCZl2JQJC lrul9W
LS<OOL(QJ.QJ.9<ce:> 0 ?cros <9<QJC 1rww QPQJEJC@ CEJ< Cce:><9 Rcw@rul9ru<9

(966 -1706)0ZJQJC f£Ww L5<(99)Emlf6L«llOJ.9<cg:>"£

. (UD(QJLCIDCa.U9C9 0) <IDLCTW9Cr-'
vruoo LCIDR;UC (Q)\cg:> ocw. (UD(QJLCIDCa.U9C9 O<JUC(J)fUQID)
vruoo o? L(ru)IU9ocw E9<9ru29R;Oru L,@1 @C9LCQWSC®Ls fcg:, @C9ucru
L(QWr cg:>V C l tMl9 w. o 5rul9 Q)QID> (UD(Q) L®C@L(QW (ID) R;t8' l cg:>Lill9C(zı sf cg:,
s?oo@Crul9LQJ@ LCW®ru 0 c UDCW C9L<IDr-> "Lrul9S<<ID< L@L,Qf)LQJr-' UDC9<ID
,V-DLW LCQWWru owrcw o?ruscCIDLS fcg:, ocCQW f cg:, ·< LW L®CE9ce:>@
o?cros<9<CIDCZ12JQJC lrul9W Lftcru o?cros<9<®LQJL@frww QPill9CIDCQJCW
LCWOCZI LCQWOCZIVC lrww 0s ru c ru Lru 8(00@C&fl9LQ)@

(666- L 6)0ZJQJC fE.WW 81aJcrurl

'LQ)UIDfrww QDrDLQJ) oram.u90craew '<pc1ewcru@CQ) oram.u90craew
'<pc1rww QDill9®CQ>CW '<pc1ewcru QD5cewc cew<9 °E9cOOLcn f0
"L®C@(f)ooo L®L(l)<lJC@ oQ>cru(QJ.)wrucQ>L(Q) 66 ·cWJ<prug)
L®C®Lwurwvc rEJLru Os c® LSfew L(QJ.Q.)@m.u9@craew §Q>ewg) £86

R;U(9 L(J)<lJCCZJ"t

·ewuc}CTEJQID) 05C®LSfew
L(QJ.Q.)(f)C2JLru v5cro (Q) @<9L®@CQJ)C@ewruvcw (Q)\ew,(Wocw r Q>crucQ><mQJ)
Q/)1 Lsracew Q!)C g)@ ·cWJcQ)L®c®ewucrmoo *L(QJ.Q)@cewcQ)c(f)*
ewQ)C@,(ill <pc rewcruc cru *V* fWJ0ZJQID.) (WJCOOLQ)ew E.U)ewg)
ITTJ*QI)*1 oc@L®ruLWJ@"u *Q!)* rul9W rn@g) *'Q!)* cUI9 mD ru9ru1 *'Q!)* cUI9 ill9 i;u c2J ru1
LmD ru9o*cw* *(QJ.Q)*<9s ccro LSfew 0 <9u cru L(QJ.Q.)ill9 *Q)*(Q) ru cra cew
·((ill(Q)r"U ff LQ)(Q)r"UQID) Ocru5C® LSfew O((QJ.Q.) fewvc1rul9W
oc*(QJ.Q)* *QI)*EJg)LrD oc@LE9 cUI9 *(I)* c2J mLrDLru s <9*r*cro r (Ql.)@ ·o5 rul9g)*Q)*oo
L(QJ.Q.)(Q)) g) ewLrDWC0 Q)(ruc5crasfew OE9c<m ru <9(9 6L6
"LWLITTID<lJClEJLru 0mru1 @<9L(QJ.Q.)@cewcQ>c(f) vc1ewcru *c cru* vfWJ02100
scoo@Crul9LQ)@ ·lffiULQJ) s<9cQ>ruLWJ@"u <pc1ewcru QDScew *V* fWJ02100
'<pc}ewcru@CQ) o§c<mru<9<9 QI)) *-r L§JOQ)(Qm}* OW@ QJ)LQ)ru (ID(@ ,(WCIDrD
OcWJCW <9L(Q)ru L(QJ.Q.)ill9 LQJ) S<9CQ>Clewcru rumc0 <pfWJ02100 QI))

<pc lEm9W R;UC9"£

. ɷ CcIDewU clmoo
*Q!)*few,(ill O(®LQ)Cewcraew @<9L®LQ)E9005C®LSfew WJQ}"u . rmruwg).
o§cOOLcn f0 "LSWg) oecQ>Lru9 ,{jug)s Cffi)g) ocWJLW L®@CQJ)C@ewru<pcw
(ID,ew,(illo*cw* LS@cew L(QJ.Q.)CID i;u Lru WJQru too c0 0ru,(illW
U<9 L(QJ.Q.)5C®LSfew o l@(Q)Q)C(Q) OOc@L0ZJ(Q) ocru(Q))LQ>ruc@ew(f)oQ)
ocru(Q))LQ>ru l(Q)L<.JUCM. "LUrul9g)Q)QID> L(QJ.Q.)1rnc@L2JW U<9 LUU M<9
ill9ffiUCW vu @ UC(QJ.Q.)Lill9f ,(Q) 666 . lffiULQJ) 8(9(Q)rDLWJ@"u
'<pC}rul9W i;u(9 *'cm@* L(l)<lJC0 '<pc}ewcru Ql.)5cewc Cew<9 °E9COOLcnf@

L - (El)@"(ffi)g)"l

cfbQJJfll6TTWQ.Jo (1)1ro1 , cfbQJJfll6TTWQ.Jo QQ(R)QJ n..y)Ol)1rumJ@S (R)1n91j. 1984*cm*, CGYQ,QJJ ru (/()1ru a cfh9:j*k<m*(O'(O)1 *cm*, CGY0 ma6m'3go.

S.cfbo.J1Q.Jm6m3j J *a>*

g'Q(()16m'3J QJ cB6)*Js* CGY00ll (TT)J rn .!2.J J J .!2.J J cfbj J rn CTU0 J mcfb (I) *J* m*J* cfbJ QJ (0'(0)1*cm*, cfbJ s1 CIDJ 3 o, m6m'3j J a>cfbJ mrm n..y)01)1ru CGYo rsj mfl *J.* 1994*cm*, (/)*JmJ* cfbJ QJ(0'(0)1*cm*, CGY0 ma6m'3go. CGY0 0Zl(TT)J *a>* 0 J Wru .!2.J J cfbj J *a>*, cfbJ3dl> .!2.JJcfbj Ja>, aru6mJ 1, c-81 ffi6m3j Ja>, m1n>fllQJ n..J6m1c66)a> n..y)Ol)1rumJ@S (R)1n91j. 63J.n..y)dl>. 1.m.>1 n..JJ(()CTU cfbJ(()o Q..1@1 1 3 J cfbn..J1QJ md (O'(O)a0 QJQJ CID1*cm*, ITT.) 1 ru0 J 6Yl).

6. cfbQ.JJ0 6TTW Q.Jo cfbd u cg6mmJ ra1

1997 *fllJ<m cm*, a cfbm o cfbQJ J0 6TTW QJ(O'(O)1 *cm*, cfbJ mrm, cfbJ s1 CIDJ 3 o, n..y)01)1ru CGY0 rsj ITT.)1 *J.* 1999*cm*, cfbQJ J0 6TTW QJ(O'(O)1 *cm*, CGY0 ma6m'3go

7. cfbQ.JJ (2) 6TTW Q.JO (/)1*a>*1

1971*cm>* cfbQJJfll6TTWQ..1(0'(0)1cm> cfbJ s1 CIDJ 3 n..Jo mo cmg,mors1 J. QQn..JffhJ o (()Jfl).!2.JJcfbjJa>, Qln..JJn..0. 6PJ1cfbdn916mdl> g'Q CID<m, cfbJ6YOYID1?d1 cfbJ31 ffi6m3j Jro0Zl n..y)Ol)1rumJ@S (R)1n91j. 1971*cm>* <md(R)J *a>* ffi)o(f)l<m mJScfb «3Yoc66)JBfll1CID1cm> «3Yo(()<:6m'3go. fllJa>(f)1 Qfll(Wcm> (1977), n..J1n91J(()S1 Qfll(Wcm> (1979), C:cfb(() ffi)o(f)l(O) mJScfb «3Yoc66)JBfll1 CGYoOJJa>n.u (2001) n..y)01)1ru CIDc00 CGY0 *a>n.n*CID J CID1. 1981*fllJ<m cm*, cfbQJ J0 6TTWQJ (0'(0)1*cm*, cfbJ s1 CIDJ 3 ru1@J(f)o «3Yo'2.l) j Jn..J1cfb. m6m'3j Ja> OJo(R) CID J(O'(O) CGYQ,Bj cfbJs1 CIDJ 3 cfbQJ J cfbJ m1 n..y)01) CGY0 o(/)IcfbJ mo cfbQJJ06TTW QJ o (/)1m1 CIDcB6)J 6YD.

8. cfbQ.JJ0 6TTW Q.Jo lo.Jm.>(TT)

1984cm> cfbJ<OYID, cfbJS1CIDJ30 n..y)Ol)10JCIDJo ru1BjJa><m.01m1CIDJCID1. n..J1c-81J ms1 @0 Mcm>, ru <:(O'(O)J *uh* CTUa cfbJ a>c-811J n..y)01)1ruCIDc00

. (LQ)(ill.)00 UID(UJ L(/)'l) 00 UID(IDL(Q) oCUDE9 'lJru9o(UJLCTU

S ol ,v.D'lJS((Q) (Q,W(9(/)(Q)g)EJ(ru9<µoo -r LaJra Ql)rul9Q)Ccg:> Q)cru L,UD@u

800l OQ)(cg:> Q)(f"""UW Q))SCW 8(9((IDL(Q)L0M cg:>Q)C0 Q.l)l1fil9((Q) '800l

,(TU<µ cru oo OUJ9fG<µ EJcra ce:> 'lool ,(TU<µ c ru oo L@0c oo oo ce:>s cw (Q)L,(f0) ruJ

f.9Q)cg:>g) 'L66 LRi-'Cffig)CJU(9 'lJ®LWr U(9 ccg:>ru cg:>LQ)Ccg:> OC(UJ

. ((Q) ru(9 ORi-'rug) 8(9((IDLQ)Ccg:>C@cg:> 05CCIDLS fcg:, (Q)E9 L(Q,W(Q))wraru

UD(!;u Os c wg) ®Lrul9UL(Q,lQ)Ucru -900l ·cUDcQ)w LQ)(Q)ruoo

osc®LSfee:> <µru wconuoo cce:>g) w<9c® @<9LML,QJCru

LUru9CSg) E9 OOl Lmuru9cwsc(Q,Wg)Wruc1rnru) Cce:>g) WC9cCID

OO(§.U9Ccg:>(9 (L Q)cg:>L,(f)0QID) L®C(ID@cg:> cg:>\(Q)ru (9(9 cg:>C@g) (Q,lQ)(95 C(IDLS rcg:>

. csw LQ)(Q)ru@SCCIDLSfcg:, O(@LE.9rul9) CQ)Qf)EJg)Lru ®Lrul9S((Q)

,(TUQJJC@<µM lfM 'LW@<µ 'OOLQ)@g)OO tra5 ' Q.Ucou) "L(Q,WSW

ocruworuCTEJ ,0EJLru L(Q,W ?ce:><µC)rul9W L<fiL,ce:> 8(9(Q)C)RDW"cg:>(9"U-U (Q)((/)

·cUD<µrug) L®LIB<µc0 QJcru(Q,l)wrucQJL(Q) -886 'lRi-'LQ/) S<9cQJruLUD@u

<µc lce:>cru rumc0 <µfUD02Joo '<µc lce:>cru @CQ) of.9ccmru<9<9

L@(U) L(J)<lJCC?J"

"L® C(ID(JU 'lJ QID) ru LUD(!;u '0 Q)(cg:> Q)cru LQ)(UJ CEJ @cg:> '0 Q)C00 Q)cru

L(Q)C) g)@(cg:> ' CTU0<9L(f)'lJC0 (UD(Q)ru LQ)(Q)ruOO o cru5CCIDLSfcg:,

o ((Q,W rcg:>'lJ C) cUl9 W o(@LE.9 cUl9Q/) EJg) Lru o(@LE.9 cUl9(/)CaJ ffiLru Lru 8(9((ID) (ill.)

· lRi-'LQ/) s<9cQJc 1ce:>cru0cQJ of.9ccmru<9<9

·cUD<µrug) L®C®LWLITTID'lJC lEJLru Os c ® LSfce:> L(Q,W@ffi.U90crace:> vL6

@Q/)(9(9 oraCTUJ.9@cracw·o

. CUDCQ)SC(Q)

0 woru (Q,lQ),w L(Q,W UJ9 LQ/) S<9cCID 02J oo · Ql)ce:>0 s C9cCID L(Q)ruJ L(/)'lJc0

L@rDQJg) L,Ql))(J)OQ)"6

· (5WLO (WOO

ow ru ruJg) L®cCID ce:>U-Uc 1 moo L(Q,W@ffi.U90 cra ce:> "L®c CID u-u<µoo

12. s1 .cmgd> .CTUro1cm

1991*0J@am* oo 0ll rmJen ..!lJ J -:9d *J* ..!lJ J cfbj Jen mr0 J rocfb (/)*J* ro*J* cfbJ Q.J rorm1 QQ.J ru1Bj Ja>(0)1)1m1. «3'@02)(TT)J *en* (2)JW(lJ..!l.JJcfbj Ja>, cfbJ3db ..!l.JJcfbj Ja>, <-81 m6ID'3j Jen n.Q)rm1ru ro*J* QS (/()1n9:1j . 1992*am* (I) *J* ro*J* cfbJ Q.J rorm1*am* ooroa6ID'3go . **..!l.JJ..gdJ ..!l.JJcfbj Ja> (f)J(()JcfbJQ.JroYm1QQ.J cfbQ.JJcfbJ(()1CIDJCID1 *@JS()J(TT)J* .**

13.cfbQ..1)06TTWQ.Jo CTU1muJ

1992am acfbro o cfbQ.JJ06TTWQ.JroYm1am cfbJ((J'((J) -cfbJ s1 CIDJ 3 ru1ej Ja>(0)1)1m1CIDJCID1 a..!l.Ja>rmJ. ru1ru1w ooro6ID3Jcfb 1am gQru oo ru@ro1 ?d1-:9d*J* . <-81 m6ID'3j J ro*J* Qs (/()1n9:1j CIDJ 6fO. @1ro*J* rumom*n..JJ* roo 0Ja>(f)1CID1am ln..Jrucnrorm1c66)JrmJ.

14.cfbQ..1)06TTWQ.Jo CTU)n.01

1992*am* acfbro o cfbQ.J 0 6TTW Q.J rorm1 *am* cfbJ ((J'((J) cfbJ s1CIDJ 3 ru1ej Jen(0)_£)1m1CIDJ CID1 a..!l.J cnrm*J.* 1995*am* cfbQ.J J0 6TTW Q.J rorm1*am* oo roa6ID'3go. **ru1ru1w aruB1cfb 1am ffi6ID3j Ja>cfbJ *roYmJo* cfbJs1CIDJ3nJJo** oo ru@ro1 ?d1..gd13*J* 6'()'g.

REFERENCES

1. aro6mJcfb *n.Q)db* (aMJ.),®l@1mJSjcfbQ.J m6ID3jJa>cfbJ((J'((J),acfbro @Jn9:1 gQdb 1g ,201o @1roJrumomn..JJroo.

cfbJS1CIDJ3roYm1QQ.J ®l(O)I cfbl.OJn..JJl(O)roYm1mQO ..!l.J(2)CID6ffi3 Jo *0J* QJ Qrorm y, *JroYmJ* o @Qcm n..Ja CIDJ (/)1c66)*J* rm*J.* l(!()Icfbc) 6m ..!lJ ro1@0J6fO ln..J..!l.JJroo ams1CID cfbLO. n..Jlom6TTsJ e1rucruo QcfbJ6TTsJ6fO gQcm **n..JJa>6PJ0JCID1 «3'fo(lJ(0)(()1?d1c66)J(TT)(O). 01Y'JnJJ6fO n..J1rm6m1CID1QQ.J**

UC9 Lf9C@cQJ C9Q)f"GQJ)g)@fce,·[£] · f5WLill9ClJru L«uIDQJCce,L@ raw s (9(f9qp LSru ccg,g,Of9@ kW ru (9(lr'uwQ) «uQ.)(9 (5U §g,Q/D) LSC(IDO,qp owu-u0QJcr,,uw1 (QJJ®OOC9<9C «uIDfce,) cµd'ce,cru cQJE.9 ®CWQJcce,fQJfruur,, QJJoos ru Q/)c g,UDru L£WS0 Lence, 0 ® lf (/)LEJ Q) «uIDC9 ,(DC CQ) UD(B-u QJ.)r1J(5(({Bru(9 Q_DQ)rug, UD(Q)wLruL, L2il9C5f w O(2il9Q) un.r(B-u. [l] . (UD(00 L L,Q)LW 00Lr-'QJJ (QJ.QJ.9 fcg, of9fcg,0f9@. Cr-')(9 ,v.u@"u fce,cµc1oocru c@®C2il9c L@ill9LQ)r-' or,,fQJcrace, UD(B-u fee, UDCQJL®C2il9f@Lru@LW qpcfiL@@ ®cnr-' twfs C9Q.l)C9 LSf ce,QJOOf9Q)qpg,

[J- @ cOr,,f QJcrace, twfs C900L®WLWOO OQJc ce,r,, 1LmLru @1,(ll)CQJ)1scw , "LruL, r-'C9 f9(9£Wqpscw @\cg,,(ll)OM SC9cf9ce,Lruce,cu-u0 ®LtWSc@ QJJMCaJ ·ftwfooLf9Lru oftw@"u osc®LSf cg, WC9L@UDcoolr'LQJ@ruoo Q_l)tWce,scw@\qp,(ll)OM ,v_ucµrug, cµc0.>c1ce,cru @csfcg, LUDE.9

. **ill9C@r-'f QJC@cg,**

(l)occe,tfr-, CQ)E.9 @ - UDru Lru@LW cµr,,g, <1@ C@L«uIDITTIDcµoo UD(B-u fee, s<9cQJc0.>c1ce,cru cce,e9f@oo ·ce,foolr'LQJ@ruoo cf9£W(l)OOO @<9L«uID®CEJc@M cµc 1ce,cru L®C@@(l)CQJRDQ)r-' fee, · ?oocµc1ce,cru cao@qp(l)oQ) CQ)E.9 aoc0wuu-cr,,)L@oo @<9L«uIDf9Q)qpg,

o (TU)1U9 EmC9 L021(Q)

o((Q).ID fcij)Cl)(ID LEm.9 w o((Q).ID fcij)Cl)(ID 00 f'u

· UDcQJwlr'LQJ@ruoo

c0@1c0 Lf9£W@rw«uIDfce, @<9Lf9£W@1 g, Lf9£Wracce,Q.Df@ of@@

. UD(CIDUr-' o,cg, C(IDS(9f@Lf9qpEJ)(0

@,(ll)U-U ·ffi@ oill9 cwoM L«uIDfce, cµc1£Ww ·010cru wcmr,,)

CCIDg)E9(9 Em9 W *QI)'l)* CZJLrD **8(9***(Q)* **€** cg> Cfu **r–** ▾ **-(cGIDLencg> (00** ***QI)*** **Em9 W** *QI)'l)***0 LrD**

8(9(Q)C rc:a>cru 00(0Q)Cc:a>LmOO QDCOOLQf)'lJ0LrD O(@CfGg)W<9LrDC CQ)
q.uc Q)rDc§.U9 cc:a> <9 ;:;9fJ' @g)L®CW *QI)*1 8<9cE9c:a> L*Q)* c c:a> Lmc ill9*Q)*2J

E9(9 Em9 w **r–'1**cg> Lra c cg**0** (U) 0 ((.Q,lQ} *Q)* **W** L8l..f° *Q)* (9 r (U) EJ(U)

VC **rc:a>cru Cc:g>(9 O(E9c:g>07c:g>02J(l)W O(E9c:g>07c:g>r-,(9 "O(OOLWC rrnc rru**

QI) **Em9***(I)* **C2Jr EJr-' (.Q,lQ) C8** *(Q,lQJ,9* **(9***Q)* **(Q)(9 L®CW L@OO 8 (9LW L(.Q,lQ)** ill9*Q)***(Q)ru C07cg>**

·ocooc8c(Q,lQJ,9LUC(QJ.9<9 o@),(ll)ru ·ocooLQ)ffi ocoocQ)L@
@L5ru<9 L@Cc:a> cu0 ocruramil9cc:a> L@Cc:a> *cQ)E9* ·oc@ccn0<9rnc0
(§.U9 Ccg>(9 rt) Lill)(B"u ***LQ)c:g>*** ***'QI)***(Q,lQJ,**0** **'L***Q)* **00** . **O(00 L®cru** **O r 0 cru**
Ul)(B-u ,(UccnL0 *Cill)cQ)*L@L(li)l..f° coo LE>ru g)(/)0 *Q)* ***QI)***c *Q)* E9 L®c 0@(.Q,W c *l1o/)* r-,
·(Ul)cooc0 r0, u-u OUJ.9Q)(Q)ruoo 8(9r raLE9tW ® WL2JC c:a> Lf@C(U)c:g> L(J)000
ofGcw<9L@Ul)CCIDUr-' o,qp · **C0R;OrDg)**

U<9hl,)c:a> R;U **f**EJ **LrD** ;:;9fJ'***QI)*** **C CID 00** . i11)**C00 L® W L2J 00 (0** (Q))**(0** ***QI)*** **C***Q)* **E9**

. **(li)(Q)WLf\Q)@rt)00** **fqp C0(Q)) C0 LE9tW@fW(.Q,lQ)** **fqp**
@(9LOO C00 ***QI)*** **Em9(Q))R;t8)g) (§.U9r-'** . Cill)**ru SJ**r-' **g)** Cill)(.Q,lQ)<9**f**cg> ***'l)*** **C r cg> Cfu**
Cw L@(li)(*Q)* **W** L*Q)* (Q)ru 00 ° (Q))c 0 vru 5pr,(9 L(.Q,WCID CEJ(0 (U) *V* C r cg>cru
LE9 tW@cc:a> q.u?0 - **ill)c**Fm ru <9 L(.Q,W?c:a> c CID c:a> c00 c8cc:a><9 c(Q,lQJ,9 u r-'
*r*F&- L®wL2J oo *;:;9f!'v*r (U)EJ(U) *QI)* Em9 2J**V**ru(U)cm cg> 0 *r*® ra<9LE9 Em9(U)c **u-u**L@ce
O((ID@(9 L(.Q,WUJ.9 C*Q)*** **(r-'.** **f**cg> **CCID@c:a> (ID(0 WC ffir-')cg>lJ""u cru**

[p]· ((li)(8fG<9CIDUr-' O((li)UJ.9(9C(Q)CIDLU®g)L8(c:g>
;:;9f!'@g) LE9tW (/)c2J m LrDLrD u <9*h1-*)L(.Q,lQ)E9 *Q)*qpg) LW 8 <9LrDoo
Q_/)£m9ru90(8(c:a> ***VC*** r oocru W<9L(Q)r-' 00(Ul)'l)8((Q) O((li)(Q)(9(li)(Q)LCIDC§.U9C9
c 0@1**0** *QI)*EJg)r-, 1 ***V?*** **ffi**mu9<9L***Q)r-'***<9 @<9L(.Q,W E9*Q)* c:a>g) q.u oo 8 ru
,CWC0 (00Q_/)c:a>(§.U9C(j fw O(E9c:g> r Q)r-'(U)C@c:a> 8(9(Q)rt.)00 O(Q)C@JC r OOCfu

. (ID C@L(.Q,Wr-'?*Q)*
(.Q,lQ) **(9** i11)**@** **f**cg> **o R;I'QJ)g) (00** Q_/) **Em9**ill9***Q)cg>L(Q)r-'*** **o (Wc@@"u C(.Q,W@Cc:a>**

L@(U) **L(f)'PCCZJ**

. **(W)(Q)rD Lal..l9Sg)CW)<l,)CfPr-' L®CC?J(f.9£m9<ID)Cr-'C07CfP@r-'**
anc0cf.9cg:,L@1 *0 cQ>Cca>R;UcQ>cru* LS rug) 'lOJL®SLWL<ID@ · cWJ<OOL®WLaJOO
, "LQ><ID LrD LSrug) ocncai 00cCIDQ><9rDC<IDWJ<CfPCQ>mJIU9C?Jr->)g)
'lIDL <ID O(WW(<l,)00 O((IDEJ)a)((UJ C(Q)(9
rDLWJ@u Ql)CfP@L,@@CIU9 'oQ>c@ruoo o<9kl)lU9 \CfPL,QJ)) 'WlU9<lJrDCCfPQ>CrEJ
JU900 (LruJcEJ s<9cane1aicruJ) tSrug), @<9L(QJ.Q)CG30Cal..l9Q> 0<9kl)L(QJ.Q)CfPSCW
oan wmce)aicruJ o@1crucmcg:, @<9L<IDOO ·oQ>cruJcWJC?J<9<IDLQ>rulU9 \CfPl,QJ))
<l,)Cca>C)Em9W CCID@<9Cr-'g)((Q)QID) 'C(IDg)W<9£m9(f}u OCQ3CCIDL,@ccnooo
<l-)Cca>C lCfPCru cffi(f}u [CC?J lQJ)rDOO oru9oraruoo]· cWJCQ>rD
c@ ru<9 ocancg:,coo LQ><IDruoo ocancg:,cooLruJ laJOO
oru fQ>C@CfP a,@ ocQ>rucffi(f}u l Wg)C?JEJaJg) <IDC?JL<IDC LSfcg:, csC®g)L@CCfPr-'
ocal..l9Q) o<9kULal..l9c5?w *oc@rucQ>@·* ?oovc lrul9W c(QJ.Q)fcg:,
WJC(QJ.Q)SW L®CC?J<ID)CC?J <l,)Cca>C lrul9W. CQ>Cca>C lrul9W WJC5CfP<9
Ql)Em9R;UrDg)L,@1 'lQJL(QJ.Q)5C®LSfcg:, · ?oovc lrul9W c0ruf Q>cracg:, *cQ>E9*
WJcQ>ruc@ ru<9 oc5L®C®L@QJ)<9<9 ®WLaJccnoccg:,tfr-, *cQ>E9* 'lOJLf.9£m9<ID)R:HPg)
LOrDg) <WJLW'lQJL(QJ.Q)5C®LSfcg:, '0c an c0 cnc ai *CQ>E9* 0<9kl)L(QJ.Q)5C®LSfcg:,

· *(Q)*1g)W) *rQ)* L®c0 *roo*c ra *(QJ.Q)V*LW W) *({QJ,Q)*s w *rcg:>* *'lQ)*L(QJ_QJ<ID1 R:HPg) OO
s (9C*(Q)*g)00 'lQJC(QJ_QJV L<ID(f}u 0 (@LCQ3Q) (900 'lQJ LQ)) (UJ 8 (UJ C(ID g)f.9(9 £m9<ID L@CJU

n.JJ (OYO) mQo J cfu91o

m6ID31av*a*>cfb6corm1 QQJ lh..JuzHrUcm m6ID3J*a*>

ഉഷ നങ്ങ്യാർ

c£b QJJ0 6lTW QJo CTU o (1)1cm

cfbQJJ(2)6l1UJQ.Jo (1)1(01