

efdè «dd-d»

fde | dSd | dS

«dTŠdýdg®PNd «d'ckd! «defdVšAT»Tš

| Ets | da <ds i d | e@p-dP@M | e@S* DTs

efdè «dd-dz ŠddNq ±dTŠ EdPNTeNssddēNy Ha

Sdje «dd; dz* HSSdd@/p2g Sd±dg

Údf EddPNtTeNssd@Nsd@®dtS AèeVvYySQ

efdè «dd-dz

872·#

|d[®]e-åÅ| D@μ fdèe| ¶dd* |dkd| dš fd<dtš fd-dz| ¶Vš «dffd*|

«[®]du-dUp DPNg Dekd@|Q* «dO-[®]! e'd'ds dd[®]da | TS,*

Ad[®]-dS[®] SdN[®]z | PN[®]S[®] AT>kdd | dUT[®]S DV[®]d! (2) (1)

873:#

SdY Y dz «dd¹d-dz Sd¹d-dS «de¹d¹* Sd¹dV pdsdS | Pkd-dYdS Ydc | Pds*

A YYdidd! A «dTŠHT! * AdSdTŠEda | Dzefed! Héda *

B^Y_Y d^z E^d T S^d d^z S^d S^d* B e QT -d^d U_p A d V_a*

ÄYY@ SdT@ PNT@ AT»@ d! (2) (2)

874:

875

876:

877

«dTa±dgtS «defV§HNjijd* «dè«dT™|¶®je«dzSpNg*
SdFa±dgtS AdÅp «ddNj§ SdFVg SdDg AeTsD «ddAFTS*
ATa±dgt ATeUjecld* AT»jd™|¶AdL§dSdded,*

Sdgja ± *dsgjatS* | *¶-da* ± *dsgedg** | *Sdgj/š* | *¶¶d* | *š el Ne™* | *¶dftl!* (6)

878:

879

⑧ **g**ess^dNg ± dPdTS «dPNTS e[®]defdeSd-dS ± ddTM | \$d | 7/8* e[®] d[®]Sd-dS
 Sd[®]eSSd[®]Tsd[®]d | 7/8* Sd±d-dS Sd[®]Ed | ddSdQdUj*
 | STSSd[®]d | 7/8* | PNsdg AdUj+d* | Ngd-dS Ed-dSd* Ad»i-
 AëSSd[®]d | 7/8«da | PNsdS* AT»kdd | dUèVd[®]d (8)

880:

«dTS «dTS Q® ta DPNj* «deQsd-d «dd; dNp» iVj*
DTSSdEdj Ae;d |df» Mj* Ade® u; dH; dj DPAT «dÅFT,*
ATj «d-h; Adjdg AeTSdFTj* A®; d-d-d Q® ta B-dj*
I TSj|da «dSj d H; Qj* I q/p-dPz SdePde< dSj; dFTj. (9)

881

I ððAððdðsQs®taH»* I ð→ððtðsAèVþfððdð-ð
I þðAððdðsEdðe®T»* DSSd®™ I þðDSSdþ®PPþd*
I ðATi* ðaðkdf I þvð* >ðeNu®ðUððdaðeðlþo*

$\pm d^{\text{A}} \text{ap} \text{Ed}^{\text{B}} \text{ds} \ll \text{deN} \text{sd} \text{I} \text{q} \text{id}^{\text{C}} \pm d^{\text{D}} \text{ta} \text{sd} \text{II} \text{d} \text{B} \text{e}^{\text{TM}} \text{I} \text{q} \text{d} \text{f} \text{I} \text{I}$ (10)

882:

Ad*eet*®-d*Ad*i «*defTS** AN*idgD-dUp*» N§ DSSd,*
 ±*dec*®-d*AT™* | *T\$* | *¶* * ±*T\$* | *da±dUp* | *ddT\$**
 «*dée*®sd *Sd* | *T\$* | *¶* * «*defD*N§ *efdè*®*T*» à Hedd,*
 | *dec*®-d*edee*®-d*defTS** | *¶* | *di* | *¶* | *V*™ | *¶* | *dfTi* (11)

883

884

HetSd[†] dTS[†] dt I[†] H[†] d[†] «dd,d-d dg DesdU%[†] H[†] dd[†]
 ®dt I[†] H[†] Sd[†] Ed[†] /® «dd-d[†] e®ppdats I[†] H[†] Hild,[†]
 ATe[†] dd «de,d-d TS H[†] dd[†] AT) k[†] dg A[†] v[†] ssatdeUp[†]
 SchdTsd[†] ®dv[†] dt I[†] H[†] dd[†] Sd[†] dv[†] dg Ad[†] v[†] Schd[†] d? (13)

885:#

® dePNj da «dj-dj±dd-d^{*} » deSde-ddda Ad-dj±dd-d^{*}
 I PNPj dS «dfEdPd®dj±dd-d^{*} » I Sfde-ddda I Pdj±dd-d^{*}
 APNj PdS A «dea±dd-d^{*} » Aed ede®T » à Hédd, *

$$\text{e}\text{cdPN}\text{TS}\text{SdS}\text{QgDPPdg}\pm\text{dTTS}\text{e}^{\otimes}\text{d}-\text{de}^{\text{TM}}\text{I}\text{P}^*\text{dd}^{\text{TM}}\text{IgBN}\text{ekd}\text{dTt}\text{I} \quad (2) \quad (14)$$

886:

«**DSSd™** | **DSSd;ddU*** **e@e@eSd-dd Hé@S Sd@-d,***
Sd@Sd™ | **DSSd;ddU*** **Sd@-d@Np DN@d | D@dd;@***
DSSd@Sd@dp@d@Np@* **A@e@e@H@dp@Q@Sd@z***
H@Sd@Np A@e@e@e@dd@* A@V@p@SAT@A@? (15)

887

888:

e[®] ðe[®] e[®] d[®] dg Hii[®] d «ddÅ[®] ps^{*} e[®] def[®] de[®] Sd[®] - d[®] d[®] «def[®] Sd[®] d[®] - d[®]
 Be[®] dg Sd[®] d[®] - d[®] d[®] | d[®] Yd^{*} BT[®] Sd[®] Tz D[®] U[®] PPP[®]
 ± d[®] d[®] d[®] «d[®] S^{*} ± d[®] d[®] + d[®] | d[®] Ed^{*} AT[®] » kdd | P[®] Sd[®] d[®] | P[®] Np^{*}
 | P[®] e[®] u[®] d[®] S^{*} | P[®] N^{*} | P[®] N^{*} | H[®] d[®] | PPP[®] Pd[®] | P[®] V[®] M[®] | «ddT[®] | (17)

889

Be₂def₂d₂S₂Ed₂T₂-dz «dd₂d₂* HeTS₂d₂P₂S₂T₂®dz «df₂d₂*
Ed₂d₂e₂!N₂QgAT₂-dy±d₂S₂d₂* Ed₂d₂T₂! | PPd₂d₂H«dd₂d₂*
| P₂d₂S₂d₂!QgA!dd₂+d₂S₂d₂* | PPd₂d₂ | PN₂! P>dv₂*

$\S d e \{ d S d e \otimes g D e f d e \ll dd - dd^* \quad H | d \check{S} + d \check{S} U \mid d \check{S} \quad \S d e \otimes S d \mid d i !$ (18)

890:#

I Nped+dz «dNszt[®] d! dg \$t* I Pdefd+dz SddQa ldfaÅpu*
 ®Nped+dz Sst[®] dg I PÅfsl^{*} Edp, fde+dz B-d» i lde™ I P
 I Np-+dT i \$t I Npav[®] \$H|Qz* AT[®] Pdef^x Edsd-dgad I PNg*
 DNH[®] \$H|i d™ I q DëUgd-d^{*} H|i d[®] S D-duijT! (2) (19)

891:

SdSdg | dFTSAT » i Edély / β SdSdg Pdz Sde³ Vμ | P Nμ *
 « dSdS; dFTS Edély; d; dS « dTz » « dTUpd Dè[®] tg EdtVg *
 Edsd Edkz | P > dVg * EdsgeTEdg Sd dVμ dSdg *
 AdSdg dFTS « dSdg EdtVg * AdNSdTTM | P A U_{d-d} dk? (20)

892

893:

§d±dT§j §d±d§A--dd§* §dje«dz AdjdqDPdT-ddUpedg*
AdeT§dT§Ed» Ät--dd§* AeTsd--dd ®d;dgd--d;§*
«dd±T§d§S «d;d/dy/p/d* ®Pde» i ;dla BëSSsded--dd§*

S_d-d|d|d|d² Ad[®] Ed N_d?* S_dEdz |dc Yd|df ±ddy → ddSdS (22)

894:

>d>ëSd-đS Sdg! dEd<<ddSd* | ¶e®dT {dN®dg Sddåhp*
 SdNNS! dFTS SdT! Edg SdSd* Sdg! / þdS AT> a Eddy/þ*
 H>M§ «dd-đS BT®! đS C±! đS e! ¶NfedfatS ei ¶NT! q! | ¶Nq*
 HÀ! da «dT! Qq ®! @Uj! đS H! / Sd! H! / Sd! (23)

895:

⑧^D V¹ ^DT^S S^{AT}! Edg S^dS^d* e^R det^S d^dV¹ d^S AT »ä Edgy/§
 | B^Q d^dT^S e! N^{ed} ⑧ He* | Q^d-d; d; d^S «dlykdj | PNj*
 D³ V¹ d! ⑧ e- d^dS^d S^d-d^d* Adje^R d^SH¹ dg DPdT «ddÅjs^S*
 | B^Q V¹ d | Q^{ed}-d^S+S^d* D¹ d^S | B^Q V¹ d | Q^{ev}™ | Q^dS^d! (24)

896:

| ꝑ V̄ i dg « q d d - d A d d g | ꝑ t ꝑ M ſ A f d P d d d d *
 A d V p l d A d ſ H ; d s | ꝑ P d - d * e d d ſ | ꝑ d g s d l d ſ A - d d *
 | ꝑ V ſ ſ d d y ſ | ꝑ P N g ; d a ! * | ꝑ N h ſ ꝑ P P d ! | ꝑ d e d u p d *
 A e V i d d T M | ꝑ A e 3 ± ſ ſ | ꝑ P N ſ ſ * AT » k d d | d U ſ D V p d ! (25)

897

898:

899:

900:

Eet- \neg dS | Pd B- \neg d* DT \neg d «dT\$je \neg dTSB- \neg d*
 Sdet- \neg d e;dS SdQ «d- \neg d* SdetS- \neg dS SdT «d «d*i* 0%
 I PdV μ \neg PPd! (H)d* I Pd! I d \neg eUd! d*
 Ad \neg VTS I Vd Pd A«dd! * AT» \neg dd d \neg eVd! (29)

901:

$$H^{\dagger}de^{\dagger} \mid q \rangle d > def S dy ds \pm dd \rightarrow ds ds^* H \epsilon t A d V N pd \mid q \rangle (30)$$

902:

*Ed® id dy/ptš Edéek d-č A---d-č * Qida SdNižiddeT-č A---d-č **

D® d%pdfTS Sd!-d* H!dS Ed!dS DT\$®TM | 70 A dA A-d!dS*

$$A^{\oplus} \otimes_{k[[t]]} esdTe^{\oplus} \otimes k[[QdS^*]} AT \gg \otimes k[[dU \otimes V^{\oplus}]] \quad (31)$$

903:

Add Pd^{\oplus} to PN + Hg_2Cl_2 + HgCl_2 * AgPd $\text{ed}\ddot{\text{e}}^{\oplus}$ $\text{AT} \gg \text{dS}$ $\text{Ed}\ddot{\text{e}}\text{dy}/\ddot{\text{s}}^*$

I Pd! Dvš A dšd «d'd! Š * I P Pd' d! Dēdž Š I P Pd! *

«dd» > d¹⁰ A d¹⁰ d¹⁰ TSd «ddÅd * «de' d±dT - dS EdgT ± d! ddSd, *

$$\ll \mathbf{q}^T | \mathbf{q} \rangle \langle \mathbf{q} | Q q e d | d \rangle \langle d | * \ll \mathbf{q}^T | \mathbf{q} \rangle \langle \mathbf{q} | \ll \mathbf{q}^T | \mathbf{q} \rangle \langle \mathbf{q} | d. \quad (32)$$

904:

Sodis Sod+ dada Sodis Ed! Edg | P Nu * Sodis™ | d! d! d! ® d! Edg e! d! d! d! d! d! *

Hſdſ! AT»! * DſAèViſ Adſ Edſdſ*

$$SdS Sd^i dS^j \partial^k Qq e^l d^m d^n S^* SdS Sd^i dS^j SdS Sd^i d^m d^n \quad (33)$$

905:

D³V^{j,d} DT^{d,d}_{d,d} * D³V^{d,d}_{d,d} DP^{d,d}_{d,d} *,

| B Vii dS dd da EddPNdSeS * EddPN™ | | | S-da SoPNg *

D³V₃²T₃D³V₃²H₃—d₃a^{*} D³N₃d₃e₃f₃g₃AeT₃d₃H₃d₃a^{*}

[®]3 | SsdsdS Hédg³ Vù dd;ds * e[®]-d[®]IT e+deTejdÅjd! (34)

906:

Edde®[®] Sd|dg D-dUp H-[—]da * Ed-de®[®] Vp|š i P Np H|Qsdš*
 ±de®[®] Sd|ds Dēdz A-[—]dd-dš* Ed-dm i | dYds Ydp Ps «dd-dí*
 Ade®[®] Sd! A «d! * H|ds Ed|ds AdēSdTS A|dsd H|Qsdš*
 Šdde®[®] Sd|ds Dēdz A-[—]dd-dš* Šdde®[®] Sd|ds Šdde®[®] Sd|di (35)

907:

« $\text{d}^{\text{e}}\text{v}^{\text{t}}$ | q^{d} d^{g} d^{t} z « d^{g} d g * « d^{t} d d « d^{e} d^{g} d^{t} *
 $\text{d}^{\text{e}}\text{v}^{\text{t}}$ | q^{d} s^{d} d d | $\text{d}^{\text{e}}\text{v}^{\text{t}}$ | q^{d} * d^{n} s^{d} d^{t} s^{d} d^{g} d^{t} s^{d} d^{h} *
 $\text{d}^{\text{e}}\text{v}^{\text{t}}$ | q^{d} d^{g} d^{t} d^{e} | d^{e} * A^{d} v^{d} d^{e} d^{t} d^{e} d^{t} A^{d}
 A^{d} v^{t} | q^{d} d^{g} A^{d} d^{e} « d^{t} d^{g} * A^{t} » k^{d} d^{u} e V^{d} d (36)

908:

EdéVp@-ddl§ | Fd@-Hd@dT§±@§ * Edé@T»i@y§ Ad@i@
 Ad@Vsd@pT§ Edk@ A@d * Ed@Qsd@ Eds@ A@dT§*
 HeVsd@dt§ A@eVg A@d * H@d@EdT@dg Ha@T@dt§*
 AeVsd@da sd@-d@ Hédt§* A«d@dd@Nsd@T@! (37)

909:#

$$\pm \text{d} \sigma_{\text{AT}}^{\text{Z}} \text{D} \text{U} \text{p} \text{i} \text{d} \text{ } \text{S} \text{d} \text{d} \text{-} \text{d} \text{g}^* \pm \text{d} \text{g}^* \text{S} \text{d} \text{d} \text{-} \text{d} \text{S} \text{A} \text{T} \gg \text{E} \text{d} \text{S} \text{E} \text{d} \text{d} \text{-} \text{d} \text{l} \quad (2) \quad (38)$$

910:

AenⁱN^jdSd^k-d^l | N^mpⁿ B^o-dd * ASd^p-d^q_±d^rSd^sd^td^u «ddT-d^v*
 | N^wp^xdSd^y-d^z | N^up^vSd^wA^x * | g^y | QT-d^zesdTSSdT-d^z*
 «d^uN^vp^wd^x-d^yf^z/g^yd^x^z * «d^uS | q^v | g^wA^x | q^y_±d^zSd^y*
 AenⁱSdTz DU^ji d^kSd^l-d^m* AT»^odd | dU^peV^qd^r! (39)

911:

912.

®dd! ddy/pTS A eTSd - ddUp * ®dd! ddy/pT! H! QTTS Ad eUjt+ds*
 Edt! dt- dd! dS Edy/gid «dd- dz * ±dyeTSdSdSd! H! QTTS Ad eUjt+ds*
 E! dk(dTSd) dUjv/±dSdSg * E! dI QT! QTs! QT+dg*

913:

Sd@yQ-d A d@y@tS AdtSsS * Sd-d +deSgS SdEd «dU%S*
Be@yI g-d@yI %+dy * HaAeNsd@y@pUyS*
fdd@ykd@dtS I @Nk@yS I @P<@yS * H@yel@ddNpAd@yI *

®devſidNp AèeVſidſdſ ſdd-dſ * «deQVſeede®T» Edſ Eddiſl (42)

913:

A «[®]T[®]d[®]S A» [®]dd^{*} [®]d[®]d[®]S[®]dd^{*} i A[®]d[®]Q, *

d[®]d[®]l[®] M[®]d[®]S Ed[®]d[®]T[®]d[®]Sd^{*} + d[®]d[®]f[®] A[®]QPd[®] M[®]d[®]y^{*}

| d[®]d[®]U[®] S[®]d[®]e[®] / f[®]d[®]a T[®]d[®]U[®] d[®]s^{*} | d[®]d[®]U[®] S[®]d[®]e[®] T[®]S A V[®] p[®]-d[®]* Ad^{*} i -

A[®] U[®] S[®]d[®]e[®] T[®]S d[®]d[®] T[®]S d[®]d[®] - d[®]y^{*} AT^{*} dd^{*} d[®]d[®]e V[®] d[®]! (43)

915:#

916·#

⑧ V[®] p[®] / g Ed[®] dV[®] μ < dN[®] μ * < dQ[®] jz < dd[®] | dU[®] ja Ed[®] dy / ſ^{*}
 I[®] P[®] V[®] μ < dd[®]-dS[®] Sd[®]; dz I[®] yd * I[®] P[®] Pd[®]; dz AT> i < dd[®]-dz^{*}
 Ed[®] V[®] fia[®] ſ Ed[®] P[®] N[®] p[®] Sd[®] Ed[®] y[±] dFT[®] * Ed[®] P[®] N[®] ſ Ae[®] N[®] ſ dN[®] μ + dd[®]-dS^{*}
 BV[®] ſ dN[®] μ I[®] p[®] dEdz Sd[®]-da^{*} Ha[®] t[®] t[®] ſ Be[®] dSd[®] ® Tt! (2) (45)

EddipNtTeNgsdipNy Ad@®dtS eedè®deNy ¶Vju- dTPda