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राहु लक्षा

1/45hi kpdh 1/2

संत निक्का सिंह जी महाराज ‘विरक्त’

निर्मल आश्रम, ऋषिकेश

प्रकाशक :
महत्त राम सिंह,
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सर्वाधिकार प्रकाशक के अधीन हैं।
प्रथम संस्करण – जून 2018

मुद्रक :
हाई स्पीड
जिलमिल, दिल्ली।



पूज्य संत बाबा निक्का सिंह जी महाराज 'विरक्त'

१ ओंकार सतिगुरु प्रसादि।

शुकराना

पोथी ‘सहज कथा’ के सुहृदय पाठकों और सारी संगत को भली-भांति पता है कि परम पिता परमात्मा की अपार कृपा से, उसके दर-घर से बछो महापुरुष धन्य-धन्य सचखंडवासी संत बाबा निक्का सिंह ‘विरक्त’ जी के प्रवचनों का संग्रह – ‘सहज कथा’ चार भागों में पहले छ्य पुका है। जिन प्रेमियों ने ब्रह्मलीन महाराज जी का संग किया था, उन श्रद्धालुओं, शुभचिंतकों और अन्य सूझवान संगतों के सहयोग से हमें कुछ और कैसेट प्राप्त होती रहीं। अब इन सारी कैसेटों से अनछपी कथाओं का उतारा करके सहज कथा पोथी पाँचवीं पंजाबी भाषा में छ्य पुकी है जिसका हिन्दी अनुवाद आप सब जिज्ञासुओं और ज्ञान अभिलाषियों के हाथों में है।

यदि किसी भूलवश कोई कथा छपने से रह गई तो पाठक हमें ज़रुर जानकारी देने की कृपा करें। इसके अलावा विनती है कि किसी और प्रेमी के पास उन तत्त्वेत्ता महापुरुषों के कल्याणकारी वचनों की कोई कैसेट हो तो हमें भेजने की कृपा करें।

इस संबंध में जो सेवा अब तक सतगुरु ने आप सब से करवाई है, उसके लिए उनका बेअंत शुक्रिया (धन्यवाद) है। प्रभु जी के चरणों में अरदास है कि जिस भी प्रेमी ने इस शब्द यज्ञ में तन, मन, धन के साथ सेवा की है, उन सब की सेवा परवान करना जी।

संत जोध सिंह
निर्मल आश्रम, ऋषिकेश
जिला देहरादून (उत्तराखण्ड)

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1 vkkj fr xq i kfnAA

1

vl fu is mekgN fdmfehv Sgf t kbii
efur fu fi vkl njl u ?k khdkz kf. kfey koebii
I al gkz s dgmfr u dS kki kbii
fo. kq zkfdml qkq kqz Sthulght kbii
ft Uhpkt kvki s j l q sfk fr j gsv kkbii
vki qrvkfx four hdj fg y sjt kqz My kbii
t kqf dfr fey kqz kf foN Mfr fg u t kbii
i zkfo. kpt kdksguhukud gfj I j . kkbii
vl vkkhol ahv kft ukebv kgfj j kbii cii

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I fruleq hofgxq!!

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↑ qj kn* dgrsgp nspht ksdseyk gsdkule g i gyhl qf
vkt pyht k xj nlyhvkt k xj b dke/ dky t kqskgpg
cNq l e; gskgpm l e; t ksh t u] i k] nku fd; kt k xj
og cNq Qy gskgpm b fy, J hxq vt z ns egjk usl Hh

eguksdktk fd; kgs H₂; seguks c v_k x_k b egusdktk
g_{peulekg} v_k usd eghusemti dsvubkj pyukgs t c ; g
I ₁₀ cny t_k xhvlsj k cny t_k xhrksnlyhj k v_k x_j f_j
m_i dsvubkj v_k usi ukt_k ou pylukgs H₂

vl fui s nelgN₄

vkf au dseghusnjk t c i s dk nelgN₄ t s d gskgs kuh
dkl₁₀ p' ekjzog cN₄ ghulps sfudyrkg₁₀ ght k₄ ds l_k
b hrj g t c nelgN₄ gskt k &

I kpdgk q ysd H₂ t u i s dlvksfr u ghi tki kovkAA

1/4 e x_{11/2}

i s] Klu dkgsqgs j aqle I si s i skgskgs i s I si fPN₁₀
vgalj dhfuqfr gshgs m_i dskn b sv i usla i dkl k_k k_k
gskt k_k gskt k_k i s , d , shptt g_{so} i j esoj dkfeyksokyhl yh
drq₁₀ nks s d : i dj usokyki s g_{so} v_k s dk₁₀ z₁₀ t c ; gi s
i jk₁₀ k₁₀ gskt k_k gskt k_k

nes s d : i g_{so}; kAA

1/4 e x_{11/2}

f_j i j esoj ds l_k fyo yxdj] , d vfaulkhi ndhi k₁₀ gskt k_k
g_{so} b dkt le&ej . kN₄ t k_k g_{so} xq ?_j earhu T; kkeq_j drq_j
g_{so} I R₁₀] I skvls f ej uA ; srhull₁₀ 4/5 t l dsik g_{so} g_{so}
i q"kt: j v_k k_k dhi k₁₀ dj y_k b fy,] i s dk v_k f au
egusnjk knelgN₄ cN₄ h₂ hi s v_k k &

fdmfeyhv₁₀ f_j t kAA

vc gf_j dlst kdj feyad₁₀ ; sl_k zu_k v_k H₂ s rks g_{so}; k
i j esoj ds l_k k_k j_k H₂ f_j kdkgr_k dr_k {kdr_k Ni kdr_k
n kdr_k d i j esoj g_{so} vc m_i sgkj keu d_{so} fey₁₀ vc v_k rks

d₁₂₃ f ; k₁₂₃ l₁₂₃ g₁₂₃ a₁₂₃ f₁₂₃ u₁₂₃ k₁₂₃ u₁₂₃ e₁₂₃ d₁₂₃ l₁₂₃ k₁₂₃ e₁₂₃ u₁₂₃ , d₁₂₃ k₁₂₃ r₁₂₃ k₁₂₃ s₁₂₃ u₁₂₃ h₁₂₃ t₁₂₃ r₁₂₃ A
 u₁₂₃ l₁₂₃ f₁₂₃ l₁₂₃ d₁₂₃ k₁₂₃ e₁₂₃ u₁₂₃ k₁₂₃ f₁₂₃ u₁₂₃ k₁₂₃ A
 ukud frufg fuj t u₁₂₃ k₁₂₃ u₁₂₃ k₁₂₃ AA 1/4uk&281½
 t c rd ld dkeu u₁₂₃ d₁₂₃ l₁₂₃ k₁₂₃ , d₁₂₃ u₁₂₃ g₁₂₃ r₁₂₃ c rd ld suleh
 1/2j esqj 1/2i t₁₂₃ u₁₂₃ g₁₂₃ u₁₂₃ & u₁₂₃ ehd₁₂₃ k₁₂₃ v₁₂₃ g₁₂₃ ld fy, vc ; g
 l₁₂₃ d₁₂₃ v₁₂₃ k₁₂₃ ; g i zu [k₁₂₃ g₁₂₃] vc i j esqj d₁₂₃ f₁₂₃ e₁₂₃ y adg₁₂₃ t₁₂₃ k₁₂₃ dj \
 fd₁₂₃ t x₁₂₃ g₁₂₃ fey₁₂₃ d₁₂₃ fey₁₂₃
 efurfu fi v₁₂₃ n₁₂₃ l₁₂₃ u₁₂₃ ?₁₂₃ kh
 t c r₁₂₃ sseu&ru eal; k₁₂₃] i j esqj dsn₁₂₃ l₁₂₃ adh₁₂₃ ?₁₂₃ u₁₂₃ & 1/2g₁₂₃ 1/2
 g₁₂₃ &
 r uefgeu m₁₂₃ keu efg l₁₂₃ kpkAA
 l₁₂₃ k₁₂₃ pkf₁₂₃ f y l₁₂₃ k₁₂₃ kpkAA 1/4uk&686½
 ld d₁₂₃ k₁₂₃ l₁₂₃ e₁₂₃ d₁₂₃ eug₁₂₃ g₁₂₃ d₁₂₃ g₁₂₃ st₁₂₃ alY₁₂₃ & fdY₁₂₃ dj rkgs₁₂₃
 l₁₂₃ alY₁₂₃ & fdY₁₂₃ gheuk 1/4dZ ag½
 l₁₂₃ alY₁₂₃ & fdY₁₂₃ dk₁₂₃ u₁₂₃ eug₁₂₃ i₁₂₃ ; g₁₂₃ 1/2u₁₂₃ l₁₂₃ j₁₂₃ l₁₂₃ l₁₂₃ sv₁₂₃ x₁₂₃ g₁₂₃ og
 tc l₁₂₃ alY₁₂₃ & fdY₁₂₃ dj rkgs₁₂₃ l₁₂₃ rk₁₂₃ Bkg₁₂₃ skg₁₂₃ ld fy, &
 r uefgeu m₁₂₃ keu efg l₁₂₃ kpkAA 1/4uk&686½
 m₁₂₃ eu e₁₂₃ d l₁₂₃ Ppk₁₂₃ j esqj c₁₂₃ Bkg₁₂₃ Sogrks₁₂₃ M₁₂₃ ft l₁₂₃ sdgr₁₂₃ g₁₂₃
 et₁₂₃ jfr cknygalk AA
 v₁₂₃ g₁₂₃ ewkt kn₁₂₃ lk₁₂₃ lk₁₂₃ AA 1/4uk&152½
 og t kn₁₂₃ lk₁₂₃ lk₁₂₃ gog t lk₁₂₃ & ej . kdkyku g₁₂₃ &
 gmu ewkejshel₁₂₃ cy lk₁₂₃ AA
 v₁₂₃ g₁₂₃ ewkt lk₁₂₃ fgv₁₂₃ lk₁₂₃ ek₁₂₃ AA 1/4uk&152½
 og rk₁₂₃ lk₁₂₃ d g₁₂₃ Sogrks₁₂₃ f i w₁₂₃ &

ruefg euk efg l kpkAA

I ksl kpkfey l kps kpkAA

1/4uk&6861/2

m̄ eu dks/k̄ t c ylu dj n̄ seu dhl Úkpyht k̄ xhA eu
ed Úkrks j esqj dhḡ seu dhlorakl Úkuḡ neurks d i kp̄
r Roksl Úksqkvákl scuhḡ dlr q̄ m̄ est kscBkḡ sm̄ sñk̄
ḡst kurkḡ alY & fodY dl̄sog dls ḡ&

ukud i kj [kj] k̄ ft fu [kks] [kj] ki Nkf. kv kAA 1/4uk&1441/2

og i kj [kj] st ls [kks] [kj] s; kyksn̄ k̄ kv l̄s t kurkj̄ tukchuk

I kbsk̄ og gs k̄ ukud I kj u t kksj̄ xq I k̄ gc t hdgr̄
I kj ugat kuhbu t kksj̄ Hbdzld dseu easBkḡ sm̄ k̄ ḡst kurk
ḡshuk 1/4kusuksy k̄ chuk 1/4kusuksy k̄ 1/4kusuksy k̄ 1/4kusuksy k̄
nks j esqj rksfugavls t c rd ld dseu esai vks uga vks xk̄
rc rd ld dkvgalk̄ njwugadslA vgalj̄ dhfugfukl sd dks
vi usla i dkl k̄ k̄ dkl ḡst fQ ld s̄ k̄ kv k̄ Rekdj̄ vi us/k̄
dhi k̄ k̄ ḡst A vRek&j ekReknksa d ḡsksugavls

ft uhv k̄ ephfuvki j ekredj k̄ k̄ A

, dks/fc̄ fcj [kgs] Qy q̄ fez ḡs k̄ A 1/4uk&4211/2

fQ rks gvej ḡst k̄ xki j ld svi usv k̄ dhl jpr 1/4sk̄ vugd̄
vks ; gvi usdk̄ jpr hekurkḡ jpr kugækurkA l jpr hrks d
t M n̄ k̄ s; og rks kpk Roksl hv l̄s r huk̄ q̄ k̄ adhḡ; grks k̄ s
t M s; fd fy, og t k̄ jpr hdkl jpr k̄ og Klu ḡposu ḡsv k̄ Rekḡ
i j ekRekḡ ḡld dkvi ukv k̄ Rekḡ v k̄ Rek* ule ḡs v i usv k̄ dka
og ld dkv k̄ k̄ ḡst c ld dks dhu 1/4 p; 1/4 Ddkḡs; kfd ejk
; g v k̄ k̄ ḡfQ ld dkr h̄ xqkv l̄s i kp r Ro i h̄nk n̄ k̄ s; s
1/4h̄ xdk̄ i kp r Ro 1/4 k̄ s; eapysx, &

fr^z fVeku g\$ xy feRskAA 1/4Uk&1083/2
 t k^z; g\$ogrksfeF kg\$ogn^zMkrksugafeF, k^zn^zkghQk d
 g\$Vl\$dk^zd dsyko^zQk d ug^z
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 1/4Uk&1521/2
 ; g^zkrd n^zki j vkx, x# l kgc] fq vksdgr\$vk^z 1/4g^za
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 gmu ewkejshel^zcy kbAA 1/4Uk&1521/2
 eej usokykuga xq ukud ns t hnt i 1/4M s^zkhdk^zsdgr\$
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 rverk og t k^zkd g\$og t le&ej . kdkykg\$
 t ufe u ej Su vkoSu t kbAA ukud dki k^zfgvkl elbAA
 1/4Uk&11361/2
 ukud dki k^zksQk d g^z ukud dk^zzqj j Lrhr^zfr^z t^z 1/2ks
 ug^zdk^z dchj dk^zzqj j Lrhrksugafk^z b^zkd dk^zzqj j Lrhrksuga
 Rkv^zegEen dk^zzqj j Lrhrksugafk^z bues^z sol^zdk^zzqj uknkn^zw
 dk^zzqj bues^z scq i j Lrhugafk^z ; srks a R^zog fy[k^zg\$ d
 t xq] xq l kgc u&
 j le uled au ?f i kovkAA rft vfhlekugys^z e^zAA
 j le uledqj nsefgrks^zy AA 1/4Uk&2831/2
 og dgr\$ j le ule l akds^z 1/4n 1/2eg^zkskgs^z l akds^zvi us
 La i dkl k^zR^zdk^z g^zks^z m^zg^z rkg^zSeap^z 1/4 ly 1/2u^zhe^z
 q^zR^z dkn^zkg^zles^z jpr ug^zles^z jprhdkl jprkg^zAm^z rkg^zks^z
 fd ; g 1/4jpr] q^zR^z 1/2 ; ea^zkusokyk^z ; i nk^zg^zog ea^zg^zhe^zaks

nthkgAvxq I kgc u¹lQ ugack dj nhg¹l k¹ukud i kj [kq
 vlf & st k¹ kj [kogvlk g&
 ukud i kj [kayki ft fu [k¹ k[kj ki Nkf kv kAA¹luk&144¹
 rjssvutj dksZ tsdhrqf t ls[k¹ k[kj salsi gokurhg¹dksz
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 t ku. lgj¹ sdmcfy t knAA 1¹4luk&885¹
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 l sdqZgkst kvl¹ 1¹g¹/elks g¹ k dgr&
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 bZoj g¹st k¹ ft rusoskn¹rusbZoj pkf¹ A; grks kj kxyr l sk
 g¹ckgfj H¹sku dkgvH¹sk&

t kuugj i tkiy chuAA 1/4uk&269½
 t kst kuusokyk ~~1/4uk&~~ ogi j esqj g~~g~~og K~~k~~kk~~s~~ g~~g~~ f~~i~~ f~~i~~ i v~~z~~ &
 ckgfj H~~h~~ku dkgv~~v~~uAA 1/4uk&269½
 clgj hoskeadZoj ugakskA ; fn oskae~~a~~adZoj g~~g~~ksge , d
 oskvkt cukyabZoj dksfeyusdsfy, v~~v~~l~~s~~ n~~l~~yj ko~~o~~skcudj f~~q~~
 fey y~~y~~; srkl c >x~~x~~ ~~1/4uk&~~ b~~b~~ dsvaj t~~t~~ko~~o~~sbZoj] n~~n~~W~~W~~ O~~o~~d]
 b~~b~~ dkvi ukv~~v~~l~~l~~] ogi j esqj g~~g~~ f~~f~~ fy, vc b~~b~~ dksfeykusokykgsik
 pkf~~f~~ A xq l~~l~~fgc t~~t~~hdgr~~r~~ i s rksi y~~y~~glsx; kA xq vt~~t~~ ns
 dgr~~g~~vc d~~d~~ seykusokykH~~h~~rkspk~~f~~] i s nk~~k~~ k~~k~~
 r~~r~~caff e~~e~~lk~~k~~u f~~f~~krw~~w~~kud efu H~~h~~k kAA
 ?~~?k~~ ?qkbZfr l~~l~~fe-kfapky~~y~~ Sefy dr q Nk kAA 1/4uk&964½
 e~~e~~m i j l~~l~~sdj~~j~~du t~~t~~rk~~k~~g~~g~~ l~~l~~ seydj da ~~1/4uk&~~ g~~g~~pkuk
 g~~g~~e~~e~~m i j esqj f~~f~~ruk~~u~~ ~~1/4uk&~~ fd~~d~~ hdk~~k~~u~~u~~ekur~~u~~ og, d~~d~~gh~~g~~
 og, dkghg~~g~~
 , de , dalk# fuj kykAA ve# vt~~t~~ksht kfr u t~~t~~kykAA
 vxe vxkp#: i q~~q~~ j ~~l~~kv kAA
 [k~~k~~sr [k~~k~~sr ?fV ?fV n~~n~~kv kAA 1/4uk&833½
 og rkspk~~k~~ J~~J~~sk~~k~~ka~~a~~ t~~t~~jst] l~~l~~st] mnH~~H~~q~~q~~1/2s~~s~~an keacBk
 g~~g~~nt~~n~~ dsvaj rksdksZ~~Z~~H~~H~~u~~u~~&H~~H~~g~~g~~g~~g~~afH~~H~~u~~u~~&H~~H~~ar~~a~~ks~~k~~u~~u~~ek~~k~~q~~q~~
 i kpl~~p~~Rs~~s~~ea~~a~~g~~g~~ fd~~d~~ hdhreks~~k~~hgfR~~R~~ g~~g~~j t~~t~~ks~~k~~dhg~~g~~j
 l~~l~~ks~~k~~dhg~~g~~j r~~r~~u~~u~~ek~~k~~q~~q~~ k~~g~~ i j t~~t~~ks~~k~~ld g~~g~~nu~~u~~g~~R~~; ka
 dk~~k~~ og rks d~~d~~gh~~g~~ i z~~z~~kl~~l~~ e~~e~~ksdksZ~~Z~~H~~H~~u~~u~~&H~~H~~] QdZugadH~~H~~
 d~~d~~ks~~s~~dz~~d~~ j l~~l~~drkA i z~~z~~kl~~l~~ i k~~k~~ks~~s~~su g~~g~~st~~t~~ks~~k~~fd~~d~~ d~~d~~ks~~s~~husokyk
 og rjskv~~v~~l~~l~~ k~~g~~ b~~b~~ fy, r~~r~~u~~u~~gj hoskeau Q uA rwi usla i

dhfLfr eafffr gkf kuf gkf k&
 dksZ/kf. kfeyloSekbAA
 gshkZelb* dkvRg&gshkZeqs/lkj] m i j esqj ds
 l kfkfeyk dj knA eqsog crkn&; st knAkgfog La i rjk
 vi ukga vc vki l j svi uhi vi uhqfr; kdknksqsi j vki dk
 vKlu rksugafuqfr $\frac{1}{4}$ Wgks; kA j t kskdhdqfr Hhvk t kufs
 g\$! ÜksqdhHhvk t kufs!reksqdhHht kufs!A dgrsH
 gkf hreksdeavkx, ge] t hj t kskdhdqfr hÜksqdhgA; skks
 dki dkkrlsm hT; ks usd; k&
 l Hkefg t kf t kf g\$ kAA
 fr l nspkuf. kl Hkefg pku. kgkAA
 xqj k kht kf i j xVgkAA $\frac{1}{4}$ W&13 $\frac{1}{2}$
 T; ks xq dhgi kl s dVgshv!S xq usrkukg&
 rr Roe vfl $\frac{1}{4}$ W fu'kn $\frac{1}{2}$
 rvaggA
 ft fu vke rrqphuvkAA l HkQdV lje vchfuvkAA
 $\frac{1}{4}$ W&135 $\frac{1}{2}$
 m us ljs QdV $\frac{1}{4}$ Wf, k >Bz/leZm, kdsadVBsf, A vke
 rRoksgplukugt l >Bz/leZmudkOk nkD kgkA
 ft fu vke rrqphuvkAA l HkQdV lje vchfuvkAA
 dgqskhxjeff kf/kvloSA fcudj fr xqckv u i los
 $\frac{1}{4}$ W&135 $\frac{1}{2}$
 cshdgrk fcukl rxq dsfdl huji ktkugai kr fd; kvkt
 rd] rkld fy, tcvki tku yks; st kQkld g\$R dki dkkld]
 nM l k k j i j [k; sejkvi ukvk gA b ea/vk dksdfr ekk

tc 'Td uga gsk rks/Klu njgjst k xlA vKlu rksnjgs; k og
 fu py nk fy[kx; k&
 , d l egnHlkugks l k k h v: v k H lk A
 ntkspsu dksfo'ks k khlo; a dk kAA%foplj l kxj 4@16½
 l k khcze lo: i bd] ugha dkszka
 j kx neskefr dsleZ kesekur v kAA%foplj l kxj 2@12½
 og rks/Klu hgs l kofkds leZ dks k l hesekur sgsos ksgk
 v Klu hgs l ddkdks leZ ugha psu fu leZ g s l Hhpht l dks leZ
 g pfxu yksj psu fu leZ udyksj vc psu esD k leZ [kks og
 rks R g pfxu HhgS l s v l a HhgS l d HhgS og 1/4@11½ ks
 dfl r g s og 1/4@11½ ks g s og rks vi ukv k g st c v k dks
 l d kq-fu p; gks; kA i k tay usHfy[kq &
 rnknMlo: i svolkua 1/4k tay; k n k l i dj. k&4½
 og k l d j l ek r d j fn ki k tay uA og dgr&og t knMlo
 m l s a i eflkr d j y s o g r j s k l a i g s o g k f l k r g s t k &
 rnknMlo: i svolkua 1/4k tay; k n k l i dj. k&4½
 dgr k l r wi u s a i n k e a f l k r g s t k u k a r q s a i i t r g s ; k
 r j s k Q S y k g j s t k x k l k tay; g k N k l l pykx; kA d l d l svks
 d k l u g a l d f y,] og n k 1/4@11½ g s j s k v i u k *A vc dks
 feyku s k y k H h p k g, &
 l a l g k l s d s
 l a] H k l s d h l g k r k d j r s g
 j k e u k d j au ? k j i k v k A A 1/4@11½ &283½
 l a k d k k l k g s k g s j e s q A l a d k s e l e y h p h t -e k u l e r k s
 g s u g a v k d k & g e k k u l e r k s g u g a; s g e r k s b s g h c M b Z d e 1/2

dsgal arks a ghgskg&

I al fx vafj i HkAA uleq HkkykxkehAA

1/4uk&293½

I a ds a l srlsdZj utj+ vkt krkgS/aj A t c vkl dksvaj
bZj utj+ vkt k] ft l ds a l ſm ſ a eluykfcuki Nm dh
l skdj usyx tkvka i j vkl dksvaj l k[psu gSvkl dksrk
yx tk ejkvkk; ghgS; ghOk d gaognksug, d gaog
, d gs/ks Okd gSfki f i vksa og l a dksHkZvc 1/2Zj
l sleykusokpkf &

i s Hkfr m[fg l sskud dfj fdj i kl aoykf dfj vksa

1/4uk&1388½

I a rks j esoj dj rk 1/4uk k 1/2S dksZdl hdkcuk krks a
curkug&

cze fxvkuhl st u HkAA ukud ft u i Hkkyki dj bAA

1/4uk&272½

xq l kgc dgrsi pe i k'kg] ft l si j esoj vkl Ni kdj ds
dj rkgsog cze Kluhgskgsog l a gskg cze Kluhdkule
l a gSvks fdll hdrlaplkule l a gSvks dksZ a fdll hdrlaplk
ule ugha pfy, &

gmfr u dSylkki kbAA

dgrsvc] eft qkoSxq vtZn othdgr ſeſhi a l gk rkdj
l drs gSvks ughakZdj l drsksmudspj. kseayxukpkf A eS
xq j lenk thdspj. kseayx x; k[fg D kgqk

I al fx vafj i HkAA uleq HkkykxkehAA

1/4uk&293½

m̄ l̄ a d̄ s̄ a d̄ s̄ k̄k̄s̄ v̄ i ūv̄ āj̄ b̄z̄ j̄ n̄k̄v̄l̄ s̄ēs̄v̄c̄ ō
H̄ȳk̄ḡd̄ m̄ d̄k̄ūl̄ ūḡd̄ H̄ȳk̄ḡd̄ m̄ l̄ ās̄f̄ēȳk̄f̄n̄ k̄f̄d̄ ūḡā
b̄z̄ j̄ d̄s̄ k̄k̄ x̄q̄ v̄t̄l̄ n̄s̄ f̄ēȳk̄ḡd̄f̄n̄ k̄l̄ m̄ s̄c̄r̄k̄f̄n̄ k̄l̄ ; s̄t̄ k̄s̄
r̄j̄s̄k̄ l̄k̄l̄ p̄s̄ū ḡf̄; ḡh̄b̄z̄j̄ ḡf̄; s̄t̄k̄ūk̄ch̄k̄ ḡh̄b̄z̄j̄ ḡf̄d̄k̄l̄z̄
l̄ l̄ s̄v̄ȳx̄ b̄z̄j̄ ūḡd̄s̄r̄k̄&

fō. k̄j̄l̄k̄f̄d̄m̄l̄ l̄k̄j̄k̄b̄z̄S

c̄r̄k̄l̄s̄ī l̄k̄p̄h̄ī l̄k̄r̄ f̄c̄ūk̄v̄l̄k̄l̄ f̄k̄d̄l̄s̄ī l̄k̄r̄ ḡs̄t̄k̄x̄k̄H̄b̄z̄f̄l̄ s̄
ī j̄ēs̄ōj̄ ī l̄k̄r̄ ūḡāḡk̄l̄ m̄ s̄v̄l̄k̄l̄ f̄k̄d̄l̄s̄ī l̄k̄r̄ ḡs̄t̄k̄x̄k̄ t̄c̄
ī j̄ēs̄ōj̄ d̄h̄ī l̄k̄r̄ ḡs̄t̄k̄x̄j̄r̄k̄ōḡc̄ēk̄l̄ūh̄ḡs̄t̄k̄x̄j̄r̄k̄d̄ s̄v̄l̄k̄
l̄ l̄k̄ī l̄k̄r̄ ḡs̄k̄A f̄q̄ v̄l̄s̄ l̄k̄d̄h̄d̄ s̄d̄k̄z̄P̄N̄k̄ūḡj̄ ḡs̄k̄&
n̄t̄h̄ūl̄ḡh̄t̄ k̄AA

n̄l̄j̄h̄d̄k̄z̄ x̄ḡh̄ūḡd̄ f̄c̄ūk̄l̄ ād̄f̄ēȳk̄ l̄ \$̄v̄ī ūs̄l̄ ā ī d̄h̄
ī l̄k̄r̄ l̄ \$̄v̄l̄k̄ēk̄d̄h̄ī l̄k̄r̄ l̄ &

f̄t̄ ūh̄v̄k̄r̄ēq̄h̄f̄ūv̄k̄ī j̄ēk̄ēd̄ l̄k̄z̄AA 1½Uk&421½

f̄t̄ l̄ ūs̄v̄l̄k̄ēk̄d̄l̄s̄ḡp̄k̄ūf̄ȳ; k̄l̄ōḡī j̄ēk̄ēk̄ḡ&

v̄āf̄ c̄l̄ s̄c̄l̄ḡf̄ H̄h̄v̄l̄k̄z̄AA ūk̄ūd̄ r̄j̄ l̄ ūq̄s̄k̄l̄ H̄k̄ēk̄z̄AA

1½Uk&294½

f̄ūj̄ x̄q̄q̄k̄f̄ l̄ j̄ x̄q̄d̄l̄h̄v̄l̄k̄z̄AA

d̄ȳk̄/k̄f̄ f̄t̄ f̄ū l̄ x̄ȳh̄ēk̄z̄AA 1½Uk&287½

v̄k̄ī ōf̄/ f̄ūj̄ k̄ȳēḡk̄s̄v̄āf̄ l̄ k̄p̄t̄ k̄s̄h̄d̄ḡh̄v̄s̄ l̄k̄z̄AA

1½Uk&940½

v̄f̄ōx̄r̄k̄f̄ūj̄ ēk̄b̄ȳq̄m̄ t̄s̄f̄ūj̄ x̄q̄k̄r̄s̄ j̄ x̄q̄k̄H̄v̄k̄AA

1½Uk&940½

ōḡd̄r̄k̄; s̄t̄k̄ūk̄ḡq̄k̄f̄; s̄t̄h̄ūk̄d̄k̄l̄ s̄c̄ūk̄ḡf̄v̄l̄f̄l̄ h̄ī j̄
ūk̄s̄d̄ d̄j̄ ȳs̄k̄A f̄t̄r̄ūs̄x̄ḡūḡs̄s̄ḡf̄ k̄s̄d̄\$̄l̄ k̄s̄d̄s̄ḡūt̄ k̄s̄d̄s̄ḡh̄

cusA ft rusyksds k~~k~~cu~~s~~ylgsdsghcusA feWhdscrZ
feWhdsghcus~~s~~vls rksgsgant dhl ÙkA dlj. kl svyx dk Z
gskghugafsl fy, og t~~k~~jskv~~R~~ekgsoghi j elReko~~S~~dkZ
v~~R~~ekl i j elReknsga~~A~~ ogl I~~O~~fy[lkg&

vkrekijrek, dksdj \$A vaj dhnf~~C~~/kvafj ej \$A

1/4Uk&661½

rjshvaj dhn~~s~~ feV t~~k~~ x~~A~~ t c l x~~q~~&fx~~q~~ dlj. k~~d~~k Zdk
, d l e> y~~s~~kA t c ; s~~d~~au~~s~~dkdj skukl k~~s~~k~~1~~~~1~~~~1~~ k~~s~~dkdj sk
H~~b~~zbru~~k~~ l~~s~~kr~~k~~gdj n~~q~~ky\$[l~~k~~g~~A~~ vls ; fn l~~k~~sdkukg~~s~~rls
d~~s~~au~~s~~dkl k~~s~~kyx g~~s~~ b fy, dlj. kl svyx dk Zdh~~I~~ Ùkghugaf
gshga~~I~~ k~~s~~sdsgusdjh~~I~~ k~~s~~st svyx~~I~~ Ùk~~d~~j ghugaf dr~~A~~ y~~g~~s
ds k~~k~~dhyl~~s~~ svyx~~I~~ Ùk~~d~~j ghugaf dr~~A~~ rksq~~J~~ l~~b~~lj~~J~~
i j esqj dhl Ùkl svyx d~~s~~sgst k~~x~~k b fy, r~~h~~j si k' kg us
fy[lkg&

, gafol q~~l~~ak r~~q~~ n~~h~~s gafj dk: i g~~S~~

gfj : i qunj hv~~k~~ov~~k~~AA

1/4Uk&917½

geusn~~q~~fy; k~~r~~hj si k' kg dgr~~g~~geusn~~q~~fy; k~~s~~gfj dk: i
g~~g~~geafj : i utj vk kg~~S~~ skdk~~Z~~ a fey~~A~~ m~~g~~xq vt~~U~~ns
thdk~~s~~xq j lenk~~I~~ a fey\$ m~~g~~esmt~~g~~ai j esqj fn[~~k~~fn l~~A~~
pfy, &

ft uhpkf[kvki s j l q

ft u~~h~~es~~s~~ dkj l p[~~k~~↑ * D kg~~s~~kg~~S~~ cN~~N~~dk~~s~~ v~~k~~ x~~k~~ ds
i k N~~N~~dk~~s~~ ft ruhn~~s~~ ml dseg ean~~k~~ugav~~k~~ mruhn~~s~~ og
f~~dr~~kuga~~A~~ t c ml dseg ean~~k~~kvusyx t~~k~~] fq i ~~W~~e~~j~~rkgs
vls d~~N~~ ugao~~d~~ dj rkrks~~u~~ hrj g~~1~~~~2~~ c v~~k~~dhofR i j esqj ds

I k⁴, d g¹st k²x³jrc v⁴k⁵dk⁶j e⁷sgj dkj I vkt k⁸x⁹A, b¹⁰skug¹¹
fd v¹²k¹³dhofR ct kt l¹⁴kj 1¹⁵di N¹⁶sQ¹⁷kj dhrj Q¹⁸g¹⁹s kv²⁰k²¹dh
ofR x²²y²³kd²⁴j 1²⁵k²⁶shd²⁷sl²⁸e dhrj Q²⁹g³⁰s kv³¹k³²dhofR v³³g³⁴\$
t³⁵ss g³⁶k³⁷xli a³⁸ejr sg³⁹scBdj], b⁴⁰skug⁴¹ai j e⁴²sgj feyr⁴³kj i gys⁴⁴ofR
dk⁴⁵ks⁴⁶fcuk⁴⁷ofR dst k⁴⁸ss j e⁴⁹sgj vkt rd fdl h⁵⁰dk⁵¹skug⁵²afey⁵³kA
fdl h⁵⁴dk⁵⁵feykg⁵⁶g⁵⁷ug⁵⁸Al b⁵⁹fy, xq I k⁶⁰gc us⁶¹dgk⁶²g⁶³&
fl ejf fl ejf uke⁶⁴ck⁶⁵jk⁶⁶AA ukud t⁶⁷hv dkbg⁶⁸Sv⁶⁹kj AA

1¹/4uk&295¹/2

t⁷⁰lo dkmm⁷¹kj ghule ds⁷²ff ej u e⁷³g⁷⁴ss xq I k⁷⁵gc dgr⁷⁶g⁷⁷ykg⁷⁸s
I R⁷⁹ss] n⁸⁰ly hg⁸¹s skA

I skdj r g⁸²ks fugd⁸³le⁸⁴AA fr I dm⁸⁵g⁸⁶s i j k⁸⁷fr I q⁸⁸le⁸⁹AA

1¹/4uk&286¹/2

b⁹⁰fy, ff ej u l s⁹¹qsm⁹²l pht dhi⁹³kr g⁹⁴shg⁹⁵si j a⁹⁶pk⁹⁷ak⁹⁸
ff ej u g⁹⁹ff ej u dsc¹⁰⁰p v¹⁰¹g¹⁰²ss d¹⁰³lk¹⁰⁴; ky ur¹⁰⁵ssvaj v¹⁰⁶k &
[k¹⁰⁷sr [k¹⁰⁸sr rr¹⁰⁹cpk¹¹⁰f v¹¹¹ksn¹¹² x¹¹³ksn¹¹⁴ i j k¹¹⁵kaA
vfcuk¹¹⁶h[k¹¹⁷le pl¹¹⁸gfg t¹¹⁹skud I nk¹²⁰fi ejf ul¹²¹kj k¹²²AA

1¹/4uk&713¹/2

; fn r w¹²³wfa¹²⁴uk¹²⁵ki n dhi¹²⁶kr pl¹²⁷gr¹²⁸ks rk¹²⁹ff ej u dj A b¹³⁰ds
vy¹³¹lk v¹³²g¹³³ss d¹³⁴lk¹³⁵d dhnd¹³⁶bz¹³⁷ug¹³⁸g¹³⁹vi us¹⁴⁰vk¹⁴¹ rv¹⁴²g¹⁴³p t¹⁴⁴k x¹⁴⁵A
b¹⁴⁶fy, v¹⁴⁷g¹⁴⁸ss d¹⁴⁹lk¹⁵⁰z x¹⁵¹g¹⁵²ghug¹⁵³g¹⁵⁴z¹⁵⁵h¹⁵⁶z &

I s¹⁵⁷ki fr j g¹⁵⁸sv¹⁵⁹kk¹⁶⁰baA

osf¹⁶¹g¹⁶² r¹⁶³lr g¹⁶⁴ssx,] v¹⁶⁵ku¹⁶⁶a g¹⁶⁷ssx, A cN¹⁶⁸ad¹⁶⁹ksv¹⁷⁰k i dN¹⁷¹ks¹⁷²k
dH¹⁷³&dH¹⁷⁴h¹⁷⁵cN¹⁷⁶g¹⁷⁷cg¹⁷⁸g¹⁷⁹g¹⁸⁰g¹⁸¹[k¹⁸² i H¹⁸³sgV t¹⁸⁴kk¹⁸⁵gs¹⁸⁶fr g¹⁸⁷sl A
b¹⁸⁸fy, og r¹⁸⁹fr v¹⁹⁰k¹⁹¹dk¹⁹²[k¹⁹³v¹⁹⁴k¹⁹⁵xhi j i s¹⁹⁶j l v¹⁹⁷k¹⁹⁸ds¹⁹⁹vaj i v²⁰⁰g²⁰¹\$
v²⁰²g²⁰³f²⁰⁴g²⁰⁵ v²⁰⁶k²⁰⁷dhofR i j e²⁰⁸sgj ds k²⁰⁹kt N²¹⁰tk] i j e²¹¹sgj dhi²¹²kr

gsl k xhA fyol svfauk lhi n dhi Hfr gshg\$; gl hlkdr g\$
faukfyodsfll hdkusugabZkt rdA; grls bsykskdkstle g\$
vlk thdi kdj nA mtl sdgsdi kdksZq g\$, bsrjskdi kd\$ lk
dlec ut k xhA pfy, &

vlk qrvkfx fcu hdj fg

vgaljk dksR kkdj cknefourhdj uki jesoj dksfeyusdA
i gys st kis fPNu vgaljk g\$; g D kgs vulekeav RekaofA
fr ukvukRe kZt earjshl Rrku gA dsl Rrku g\$; g
1/2k 1/2 Ddhgkst k &

frt fVeku g\$ xy feRskAA 1/4uL&1083/2

; shkZl jk >Bvgs>xNt [kRe gqkA fqj vlk vgaljk dks\$
i fPNu vgaljk dksR kkdj] fqj mtl I a ds/vkst kdj fourhdj ks
bzqj dksfeyusdA i gys dj kstc vgaljk vaj gA

yqj HkyflMykAA

fqj , tsdg&gsi Hqsi jesoj ! n kdj dseqsvi usi YsI s
yxkylA yfM1/4YkHko g\$&ule dka eqsule dsl kkt ejseu
dks kA dsl dkvRkls g g\$ ejseu dksule dsl kkt kA
tcule dsl kkt kA dksule] rc l ekfkgs k xhA vlk dkeu ule
dsl kkdHht dks

, d fpR ft g bd fNu fkv kov kAA

dky Qk dscpo u vkbv kAA 1/4 e xR1/2

n osi k' kg 1/4hxq xka f g l kgc t Hdgrsq dly fy,
HkZeu dks kA g\$ alksmt ule dsl kkt kA eqs
vi usi YsI syxkyl\$vi ukcukyl\$nk cukyl&
t kqfj dfr feykZk

t ksfj] da] ekfyd] i j esqj usfeykyh ft Kk q i hft k t ls
ft Kk dfe y x, &

fl foN Mdr fgu t kbAA

cgeKluhvkt rd dlzv KkuhukghuA ddj] vKkuhukcu
x,] og rksakeQalkHhoSkghj gkvls vks eQalkHhoSkgh
j gkvls gRhs vksQalkHhoSkghj gA m dhofR u Wn
1/4j esqj l sld fy,] t lsKluhgkst k xj og vKluhugaglskfQ]
fQj og vKluhugacurkgSj aq d dj La i dhi kfr gskt k
1/4HMA pfy, &

i zkfo. kptwkdksugh

Hkzi j esqj dsfukvl dkj {ld nlykdlzvgs

j kkk, dagekj kl qkehAA l xy ?Vkdkvaj t lehAA

1/4Uk&1361/2

og l cdkt ksvaj t lehgSgelj kj {ld HhohgA 'kj jji dkrks
dekj ghfui Vj k!QsykVgskg&

dj ekni fj fucN sypS HqkksAA 1/4Uk&1571/2

tskch S ksyqslj ekl an[ksAA 1/4Uk&1341/2

; grksdkl kskvls deZyx gfc['kkvyx g&

dj ehvksli Nmuj hekspqk AA 1/4Uk&21/2

deksnjk krks kj jji : i hdi Nfeyukgselksrksc['kkj s
gshg&

t kdmvi qhdj S[k h AA rkdkySku xuS xnh AA

1/4Uk&2771/2

ySkrks gkWukgs kdj A pfy, &

ukud gsj l j. kbAA

xq vt ūn̄dg \$eoj dh̄ j. keai Mk; k&
I oz̄lekži f RT; eledalj. le-ot A
vge-fokl ož k̄l k̄k k̄k k̄k k̄k k̄k k̄k k̄k
; ḡxh̄kl elkr dj rhd". kuſcl HbZ1hd". Wdḡ \$b l svks
ejsi k̄ dksck ugacrkuſlA b fy, &
t k̄ f. kvloſr l qB yloſgqfj n̄l qlehl akAA
1/4uk&544½
; grks j esqj dkfcj n̄1/4Vḡt ls j. kvk xk m̄ sv i usdB
I ſvi uſ k̄kyxkyſk&
vl v̄ghol ahv
vk̄ ou dſeghusn̄j kost h̄l q̄hcl a&
ft ukebvkgfj j kbAA
ft uij gj dh̄i dkk: i i j esqj dhdi kḡesj ḡsn̄ kḡ\$
os q̄hcl a&
vl v̄ghol ahv kft ukebvkgfj j kbAA
csl̄ fruleq̄ hafq̄xq! □

I vlej i frxj i lknAA

(2)

I jfBegykAA
gej hx. k u x. k v k d k b v i . k fcj nq Nk. kAA
g k f k n b j k k d f j vi q s r k l nk j z c k. kAA
I k p k l k g c d j n f e g j o k kAA
c z k i k b v k e j S fr x j i j s k b j c d f y v k kAA j g m AA
t h m i k b f i d f t f u l k t v k f m r k i S. k q k k k AA
vi . k s k l d h v k f i S j k k h u k u d I n d j c k k AA z AA

1/4 W&619/2

I j h l s r d l k n k e s j d j d s d k s l f r u k q h d f g x q!
I f r u k q h d f g x q!!
A j f u x x u u o [k v f g t k f l o: i h j f g v k s k f j AA
H f u e f j k d N d l s u g h x # v j t q q j r [; g f AA

1/4 W&1408/2

; g e g d D] A j 1/4 x g] o S B/2 dh d k k J h x q v t Z n s]
i p e - u k u d n k k v k b Z S c k k h t c v k t k h R j o g u k u d g s t k k
R k A m t e a d k s l H s u g a k j g r k &
u k u d v a n d k s c i q j k AA A j e i p j q b g t x e k s d j k AA

vej nk i fu uledgk kAA tu nidi rsti t xk kAA
1/4 e x 1/2

b fy,] J hxq ukud ns egj kt nj xlg 1/4 1/2 svk &
t ks : fi gjf vki xq ukudgk mAA
rkrsvand k mrr fl mrr qeyk mAA 1/4 1/2 & 1/2
T; ks : La i txr xq cudj nj xlg l svk A fdl hi pkr us
ugl xq 1/2 uk] fdl hustuf k lk 1/4 lk 1/2 ugan A os ks ; ks : i
F\$ t ks : fi gjf vki] gjf vki T; ks : i nf; keaxq cudj
vk A nf; keai pfyr Hh; ghg ge i oZnf lkdsj lk 1/2 est c
tks posyks dgs 1/2 t hxq ukud cldegk q "kgq ga xq i n
mu yks lkdsi rkugai j aqkq i n 1/4 1/2 lk 1/2 lk 1/2 D ka : f+
' kg skg s og tks f+ kg skg s ogl lk hnf; kead gsk krk
ga b fy, xq ukud l kgc nf; keavk] m yks i uhck kheaugja
dgk &

t ShesloSk e dhck khr SN Adj hfxv kupsyky kAA
1/4 1/2 & 1/2

t c ogkmpkj. kf; lk HbZkyksdgl th gr kcgq nkns
dykdle gS 1/2 ey vki xji Bl , lskdj a \$ nf; kea ts & ts
gsk A os 1/4 hxq ukud ns t h dg s & uk HbZlk Zkyks &

t ShesloSk e dhck khr SN Adj hfxv kupsyky kAA
1/4 1/2 & 1/2

gsykyks t Shet ShbZoj h ok khgeavk xh geusn t dkc; lu
1/4 1/2 dj uk g s m yks sdgat lk [kq dksbZoj ugadgk dga
m yks [kq dksok khdkelkyd ugadgk b fy,] bZoj h ok khgs
v k xq i pae-i kr' kg neljk v k bZg s i pae-i kr' kg neljk tks

egdD v̄k kgsDvc ogl q&

gej hx. kr u x. k̄v kdkbz i ukfcj n̄j Nkf. kAA
; g t h̄ m̄ n̄skgft Kk qkdsf, ḡ czeKkuhdlsm̄ n̄skdh
t: j r ugakshvls e[kdksm̄ n̄skdj ukasshxyr gskḡ t ls
j k̄keahdhdhvlḡ n̄sm̄ sdgr si k̄y ḡ ; fn v̄k eanskrlsgok
' kqkgsdj ykskdlksxrh1eyrhA; s̄k̄j k̄keahNky fn kvls
e[kdksm̄ n̄skgft; s̄k̄j k̄keahdhdhvlḡ Nyukḡ ; s
ft Kk qkdsf, ḡft udsraj ft Kk kgsHbZgi j esoj ! geac[' k
n̄A ge i j d̄l kdj A d̄l kdscukn̄; kdkdkbzle f̄ n̄kugja
gskA d̄l kdj usokykxq gskgft ks̄j xlgl sv̄k i j aq sthfu; e
ugakshd xq ukud thxq van: lkgq i j ckckdAkvkfn Hhrks
czeKkuhgq ḡft uks k̄gct knk1/41/2[' k̄kfn k̄t c og ekk
xbzq l k̄gc t hdksdgA og i gysrj urkj. kt k̄hfhifLk̄kj k̄
dks i sy pydj] og dj eks1/4hxq vt̄ n̄s thdshbZ fh dh
i RuyHhRk̄j ekkxak1/4hxq vt̄ n̄s thdhi RuyHhRk̄A m̄
dj eksaksdgr hifLk̄k̄ & fn rjski fr yk d gskḡt̄e ekurkrks/vt
xq xnhu v̄k ds?j gsh vls ; sn̄k̄y\$ xq vt̄ n̄s dks
xqxnshfey xbzA dj eksusdg&xqxnshfQ Hhgelj hḡbuds
i ekrlsdlzgftuQ Hhgelj si k̄ vkt k̄xhA m̄ ck dkdkdA
ekk1/4ak1/4aks k̄yxlA ntjxq vt̄ n̄s dsi k̄ fourhdhA
th; fn , d l k̄gct knk1/41/2[' k̄knsn̄A osdgr & l k̄gct knrks
l a c[' k̄s ḡt̄i W̄st h̄ a dks& s̄ dgr \$l a ckckdAkḡsmuds
i k̄ t k̄vA ekk1/4ak1/4usj FkrSk̄ dj ok k̄ v̄k HhcB xbz vls
HhfcBkyhnk̄ ; k̄A mu xq l k̄gc dsi k̄ ckckdAkrks k̄s k̄d
?k̄ [k̄s k̄r k̄Rk̄A xnhHhA] fryd HhognskRk̄A v̄k dks i rkḡsl

ck d^l geskl s r; & l sysj fryd ck ge. kfn kdj rk^l v^l sk
 dkrlsvf/dlj uga^l fryd dkA xq l kgc usd^l g^l ck c^l k
 d^l gysghaze kluhckfn lA vc fryd rksxq v^ln ns dks
 m^l hu^l sk^l og rc l scge. kcukfn k^l cge kluhghdgae. k
 gskg&

cge t kufur scge. kkfr A ^{16A} mi fu "kn^{1/2}
 J^l eafy [kg^l] t kage d^l O k d d^l st kur kg^l fog cge. kg^l
 t kf ds^l ge. kdhog d^l zck uga^l t kf ds^l ge. kdkrls
 [k^l dj x; k^l c^l A c^l k^l eg^l ek c^l k^l, d c^l eg^l q "k
 fgr^l k u dg^l kg^l m^l us^l tri fd; k^l o^l d^l kfog x; k^l A
 l R & l R d^l n^l dj x; k^l A ; g^l al^l 1/2 l R g^l l^l i j esoj
 l R g^l o^l r H^l h^l skg^l t c b l R & l R dki j^l foal g^l
 t k A l h^l hean^l dj pkphcPpk^l ssdsfy, 1/2 H^l x^l kg^l t c og
 m^l dj n^l kfog^l h^l joga^l n^l skg^l fog dgr^l & grl^l t c
 rd b l R & l R dkfoal u g^l st k] rc rd b l s sklu uga^l
 gsk^l plgsdl^l zdg^l r k j g^l b l fy, c^l k b l ck i j] i j^l uk
 fi Nyst l^l dkmt dki q lkvl^l i q dsdl^l. kog fQ fudy
 x; k A j k dkdi lk^l elg us d dj [lkpm^l A t c og j k dks
 fudyusyxj m^l sk^l kels v^l k^l m^l ust kdj vi uh^l dyh
 v^l sk^l cPpk^l n^l dj fQ og eu eadgr^l & H^l Z^l kys fn pl^l h
 1/2 l^l & ej. k^l eat lk^l g^l sk^l g^l Bj t^l; fn rvpl^l hl sN^l uk
 plgr^l kg^l kels N^l A fQ og x; kH^l kels N^l d^l fQ m^l sk^l
 H^l, b^l & b^l sey^l t l^l k^l lu nt^l ascr k^l og m^l usi j^l kdj fn lA
 1/2 dgr^l k^l /vc 1/2 k^l sk^l crkv^l 1/2 q^l dgr^l & q^l sugai r^l vc
 fd l hv^l sk^l sk^l t c l k^l sk^l k^l 1/2 r^l kpq^l ri m^l dkbruk^l

m̄l dhgM̄lkḡj ḡxb̄

t c og fij t̄ukurheas; k̄ ag rksN̄l & h̄ḡsv̄l usn̄l h̄ḡs̄h
d̄skx; kej̄l k̄ ḡs̄kx; kd̄l m̄l d̄skj̄l j̄ usalle u fd; k̄a oḡa
i h̄iy dhVguhi dM̄l j̄ m̄l dht N̄leacB x; k̄a cq̄kds̄ l̄ki lp̄
m̄l d̄sf̄ k̄; R̄st̄ l̄s̄ skdj̄rs̄, d L̄thusm̄l dsv̄k̄s̄[kj̄] j̄ [kn̄]
cq̄k usog R̄s̄, I h̄[kj̄] fḡer v̄k xb̄z̄ j̄ aq̄osi k̄pla 1/4K; 1/2
N̄k̄l j̄ pysx,] D k̄a dgr̄ & cq̄k H̄z̄ v̄gsx; k̄ N̄k̄l j̄ pysx, A
mt̄k̄usdḡ&kt̄ l̄sd dsv̄k̄seLrd uga>qkuk̄ vkt̄ l̄sd ds
1/4K se cq̄kds̄ l̄k̄dkl̄z̄k̄ ughad̄j uhḡsl̄ sekukuḡ t̄c
m̄l sfudz̄ki n dhaḡki k̄fr̄ ḡb̄z̄j̄ dhv̄l̄s̄ l̄ & m̄l usrc dḡ
fn̄ k̄H̄b̄z̄fudz̄ki neq̄si k̄fr̄ v̄gsx; k̄a fuaz̄ki n oḡ ḡskḡs̄t̄ l̄ ea
ḡk̄ & k̄s̄] l̄k̄n̄k̄d̄l̄ u ḡs̄eu dsv̄k̄seLrd uga>qkuk̄ d̄k̄z̄
AeZ̄eu dk̄v̄oḡkuḡḡs̄k̄ b̄ fy, t̄c m̄l sfudz̄ki n i k̄fr̄ v̄gsx; k̄
m̄l us k̄pk̄k̄d̄l̄ 1/4K; k̄us k̄ej̄hl̄ skdhḡs̄i j̄ D kdj̄ a/c \ fQ̄
l̄ k̄pk̄k̄d̄l̄ k̄si zRu ḡsm̄l̄ dkQ̄y t̄+j̄ nskḡs̄ t̄c x; k̄ m̄l us
l̄ ylḡd̄l̄ v̄k̄ kḡs̄ 1/4K̄m̄l̄ dsv̄k̄seLrd uga>qkuk̄ b̄ ds
v̄k̄s̄>qkuk̄ 1/4K̄m̄l̄ t̄c oḡ cq̄k 1/4usdi k̄ 1/2x; km̄l̄ us
pj̄. k̄sealrd >qk̄ k̄ m̄l s̄k̄k̄d̄l̄ k̄hl̄ oZ̄rki skḡspq̄hR̄k̄
fudz̄ki n dhi k̄fr̄ l̄ & m̄l usdḡ&r̄qusrl̄ ḡl̄ ylḡd̄hR̄k̄; sD k̄
ḡk̄ dgr̄ & ckr̄ rksB̄l̄ ḡa cq̄k usdḡ&t̄k̄ ughækauhvkt̄
fn̄ k̄a dgr̄ & ckr̄ rksB̄l̄ ḡa cq̄k t̄k̄ dk̄l̄ dj̄ x; k̄a cq̄k
t̄k̄ ughad̄H̄hekuh̄k̄ b̄ fy, t̄c rd ; st̄lo i j̄ esq̄ d̄l̄ Eef̄k̄
ḡs̄j̄ el̄chi gysghukek̄ \$mr̄uhnj̄s̄ b̄ dk̄d̄l̄ curkuḡh̄ḡh̄
dk̄ v̄k̄ n̄skyk̄a cks̄ H̄b̄z̄

gej hx. kr u x. k^vkdkbz i . lkfcj n^j Nkf. kAA
 gsi j esqj ! gsbzqj ! gsi f j i M^z; fn v^lk 1^gelj sdeka^zfxurh
 fxulk^s kge N^Mug^z dr^Ab^zbz er e^d yM^h1^z n¹g^zS
 i gy^jcN¹T; lkkyk d g^zg^zSm^z dkt hou v^lk usi <khng^zKA m^z
 yM^h1^z sd^zzq^zg^zg^zx; kA rc i gys lkghl t k^jg^zshfkt zfy; ka
 d^zA m^zg^zsdg^zbd s t kD knht k\ m^zg^zsdg^zbd s^zp dsc^zp
 e^dk^zndj dsi R^j el^j dj el^j ns^zpkf^z A m^z usi j esqj d^zks kn
 fd; k^j H^zb^z/k^j dsfcukejskd^z {ld 1^zl^jl^zkyk^zuga^z brusebd^zk
 el^j v^lkx,] tc b^zkv^lkx,] l^j sm^zpdj [k^jg^zg^zx, A m^zg^zsdg^zbd
 thuz^zg^zg^zBD^z cB x, A 1^zzkt husi N^zz/k^j usi p^zk r D k^zdh
 g^zosdgr^zet h^j b^z fy, dhg^zbd d^zl^j. k^j sdhg^zbd b^z yM^hea
 nk^zKA b^z si R^j el^j dj el^j uk^zg^z; sgeusQSykfd; kga^zg^zA
 1^zzkt H^zzg^zrs^zi p^zk r dkQSykgeusdH^zhug^zar k^z b^zzkt h
 dgr^zBD^z g^zsi j i gyki R^j og el^j st l ead^zznl^zsku g^znk^z
 dykrksn^zokysdk^zek^z ug^zal drk^zft l ead^zznl^zsku g^zsi gyk
 i R^j og el^j A osl l^j sm^zpdj pysx, A d^zl^j b^zl^j pyk x; kA
 1^zD k^z1^zzkrk^z H^zheag^zssgha^z/k^znk^zav i usdk^z rkgh^zkskg^z
 os l^j sm^zpdj pysx, A og^z, d b^zzkt h[k^zgx,], d ogyM^h1^zA
 oj^z l^j i jst l^j l^zzkt hdspj . k^zesxj i M^h1^z m^z usdg^z v^lk us
 ejst ku c[' k^zg^z 1^zzkt H^zzg^zrs^zu^z t ku [k^zkus^z ' k^zg^z / k^z
 [k^zkeqsi^z r dj ds g^zyk k^j eqsd^z ck dki rkugh^z bd fy,
 tc v^lnehdsn^zkt k^zg^zog xq l k^zgc dgr^zet h^j i gysghelChns
 nk^zahckr dj uhg^zfQ i <vk^zhi f^z&
 gej hx. kr u x. k^vkdkbz
 t h^j gelj hdk^zfxurhukfxulk^s fxurhr^zr H^zhfxulk^s fn gelj s

vaj dksZnksu gA rc fxurhearsv/kneh $\frac{1}{2}$ gyhck $\frac{1}{2}$ /vkkgh
gAnkskrksd egsso $\frac{1}{2}$ Q ; s $\frac{1}{2}$ Zj dksdgrs $\frac{1}{2}$ vkspy&
vi . kkfcj nq Nk. kAA
t ks j f. kvlo $\frac{1}{2}$ rl qdByko $\frac{1}{2}$ gfcj nq qlehl akAA

$\frac{1}{2}$ Uuk&544 $\frac{1}{2}$

vc rkge vki dh' l. kvkx, gA vc rksvki gesdByxky $\frac{1}{2}$
b dsf d $\frac{1}{2}$; fn vki gelj hfxurhfxuks $\frac{1}{2}$ rksd $\frac{1}{2}$ ughacu $\frac{1}{2}$ A vki
vi usvi usvaj >lddj Hhn $\frac{1}{2}$ ky $\frac{1}{2}$ A vki dsvaj , d , shpti g $\frac{1}{2}$
tc vki dYi ukdj rsg $\frac{1}{2}$ sog l j hdYi ukdksn $\frac{1}{2}$ rkugag $\frac{1}{2}$ s vki
dgrsg $\frac{1}{2}$ s ksghv kkk? RakdYi ukdla og vki n $\frac{1}{2}$ ksq $\frac{1}{2}$ srHhdgrsg $\frac{1}{2}$ s
ij vki dksn $\frac{1}{2}$ dki rkugaf $\frac{1}{2}$ d ; s $\frac{1}{2}$ kusokyk $\frac{1}{2}$ oghg $\frac{1}{2}$ s og gj oDr
n $\frac{1}{2}$ rkHhg $\frac{1}{2}$ s t kurkHhg&

I HqfdNq d $\frac{1}{2}$ nkfdmedfj i bvkt kbAA $\frac{1}{2}$ Uuk&36 $\frac{1}{2}$
og ; fn , ksghvksrksu dki k rksyxkghugh $\frac{1}{2}$ uko dksrks
i gysghvlkt telj rsg $\frac{1}{2}$ H $\frac{1}{2}$ eu dki k hu $\frac{1}{2}$ ko e $\frac{1}{2}$ p<u $\frac{1}{2}$ H $\frac{1}{2}$ bZ
uko N $\frac{1}{2}$ t k x $\frac{1}{2}$ A vHhdgj ds k h s k s l j gsk k ij eu ds k h
I srksulo ghughai l j yxrhg $\frac{1}{2}$ vc vki vi usvaj >lddj n $\frac{1}{2}$ ks
vki eu es $\frac{1}{2}$ Zj dkf ej udj rsg $\frac{1}{2}$ s kvk dkeu ule ds k kft $\frac{1}{2}$
g $\frac{1}{2}$ knf $\frac{1}{2}$; kdhck I kprsg $\frac{1}{2}$ s vki D kdj rsg $\frac{1}{2}$ s dj rsksq $\frac{1}{2}$ svaj]
ogkn $\frac{1}{2}$ kusokykv $\frac{1}{2}$ s t kusokykugac $\frac{1}{2}$ k\

nkukchukl kbe $\frac{1}{2}$ lukud l j ut k kkrjs $\frac{1}{2}$ AA $\frac{1}{2}$ Uuk&520 $\frac{1}{2}$
og n $\frac{1}{2}$ kusokykv $\frac{1}{2}$ s t kusokykrksvaj c $\frac{1}{2}$ kg $\frac{1}{2}$ t ksvki [; ky
dj k $\frac{1}{2}$ sog nkukchukn $\frac{1}{2}$ skl lkght kus $\frac{1}{2}$ l og l k $\frac{1}{2}$ Z $\frac{1}{2}$ s og H $\frac{1}{2}$ bZdj
ff g usfy[kkg $\frac{1}{2}$ sog dgrk&og l k $\frac{1}{2}$ Z $\frac{1}{2}$ s g $\frac{1}{2}$ s dgrk&og l k $\frac{1}{2}$ Z $\frac{1}{2}$ c ds
vaj l kkh: i sk $\frac{1}{2}$ i e $\frac{1}{2}$ fj kt elu g $\frac{1}{2}$ sog l k $\frac{1}{2}$ Z $\frac{1}{2}$ s H $\frac{1}{2}$ bZ $\frac{1}{2}$ kfc us

cN₁ ej fy[kkg&mea gfu r F₁] H₁bZdj f f g e₁ s h₁ h₁ k
j gA nti uscN₁ vF₁d; k₁ ogl cds vaj t k₁ k₁ Sog l k₁ h₁ i sk
fj lt elu g₁ og ; fn vaj ukcBkg₁ svk dsl k₁ si k₁ & q x₁ j
tk &

ukud i k₁ [koy kf₁ ft fu [k₁ k₁ k₁ Nkf. kv kAA1½ w & 14½
i k₁ [krksv k₁ g₁ dchj l k₁ gc us g₁ ek₁ dj fn kvi ukx₁ A
tc dchj c₁ d^{*} 1½ w eak; k₁ og dgr & i k₁ [k₁ sv k₁ sd₁ uga₁
vk dYi ukdj k₁ st hQy k₁ Zj v k₁ d₁ d₁ i rkugha₁ j i k₁ [krks
vk ds₁ eacBkg₁ og rksv k₁ ds₁ k₁ k₁ q k₁ k₁ k₁ k₁ g₁ V₁ b₁
dj rk g₁ b₁ fy, xq l k₁ gc dgr & g₁ j esqj! rw₁ ukfcj n
i gpkA rjskfcj n 1½ z₁ g₁ S k₁. kvk dlsc['kn skv l₁ gelj h
fxurhu fxuukA; fn gelj hfxurhfxuks₁ kgeusN₁ rks₁ dukuga₁
g₁ pf₁, &

g₁ k₁ ns₁ j k₁ k₁ df₁ vi q₁

g₁ k₁ ns₁ j vi ukculdj j [kulA tc vi uk, d dk₁ c uky₁ f₁ q₁
ugan₁ k₁ g₁ vi uki j aqcurk₁ k₁ f₁ q₁ dy l s₁ v k₁ d₁ s₁ r k₁ g₁
fdruhi j k₁ k₁ j g₁ d₁ s₁ A₁ d₁ s₁ q₁ vt₁ n₁ thdgr & k₁ us₁ k₁
thcN₁ skd₁ j, ts₁ fd; k₁ 1½ j 1½ xq x₁ n₁ h₁ 1½ q₁ v₁ n₁ thd₁
fey₁ dgr & oghxq x₁ n₁ h₁ d₁ s₁ k₁ R₁ q₁ v₁ n₁ A₁ tc og ed₁ Z₁
[k₁ us₁ d₁ g₁ & g₁ d₁ y₁ seg d₁ y₁ k₁ 1½ s₁ h₁ n₁ g₁ V₁; k₁ b₁ us₁ 1½ d₁ g₁&
t k₁ d₁ d₁ l k₁ g₁ s₁ hr₁ ls₁ g₁ H₁ n₁ b₁ fy, ; g₁ 1½ q₁ v₁ n₁ 1½
l E₁ d₁ k₁ 1½ k₁ k₁ g₁ d₁ s₁ 1½ q₁ v₁ n₁ us₁ 1½ d₁ g₁ & D₁ k₁ h₁ f₁ l
rj Q₁ l 1½ h₁ x₁ q₁ ukud n₁ thdgr & i s₁ d₁ h₁ r₁ j Q₁ A₁ di N₁
mBk k₁ og dN₁ i t k₁ n₁ f₁ A₁ f₁ r₁ d₁ c₁ d₁ s₁ 'p₁ k₁ g₁ k₁ b₁ fy,
tc rd t₁ h₁ i j esqj d₁ E₁ k₁ u₁ g₁ s₁ A₁ E₁ k₁ c₁ rd u₁ g₁ s₁ k₁

tc rd gde ughakurk&

gqfe efuv Sjoklqk[k eSikegyqikd hAA

1/4uk&471/2

; fn gde ekusrlsd usi j du 1/4cyVzglskgsrlsd s[k e
1/4kyd1/2dkfeylk] og i nhfeyuhgsmkj rks st krkugahd dk
eu ule ds kft HhugahHh hkhckr rks gg&

ule l fk ft l dkeuqekfvukAA

ukud fr ufg fuj t uq kfuvkAA 1/4uk&281/2

ule ds kft l dkeu elu t k] m sulehitr gskrkgas vki
vi us kj jn ds vaj nskykskd vc Hh vkt rd ule ds kft
ugat Hhoksa fdl hvPNshhx okysdkght Hhoksa ule ds kft
eu t Hhoksa fdl qdy gftc rd dksj ykt ls yxkusu yku gsa
xq ukud ds Eek 1/4leust lsvkrkRk oskr Hht kAanssa
nl os 1/4 le 1/2 kr' kg fy[k sja

, d fpr ft g bd fNu fkv kovkAA

dky Ok dschp u v kovkAA 1/4 e xk 1/2

, d {kkekksdfy, Hhld dkule ds kft u t k rksuh
i tr gskrkgas b fy, Hhoksa st hoksa kkgugahd j rk; st ks
b usi j s/eu l sdj okuhgsg Hhugah sdj okka m eu ds kft
nji kdk kpkkg&

fl ej fl ej ukeqkj akj AA ukud t hv dkbgSv/ k AA

1/4uk&295/2

fl ej u ughad Hhld usNkska

I Hhukt hvdkbdqkrk l ksefj ut k AA 1/4uk&21/2

t ksl c dknkkgsmi sdHhHwyker] vki dksdehugah gsh

dHhHj fdl hpt dhHhdehugaj gkA i j vki rksnI sNksij
 euq kds hnsHxQj rsqsnf; kds hNA vki rks>Bv/knehgA
 mI l s bsysmI l s bsysA u&k ; gdle ugaBdA i j esqj
 ds kft msrc vki i j gkA bl fy, vki i j esqj dsule ds kfk
 vi ukeu tksule ds kkeu tksule rHhi ekkyx t kxh
 fufozY I ekfk gst kxh ogk 1/4ekfk/2 sxtqj kss ug&ksj
 xqjxkvki dkeu&

I qkv/kefu kefu dltkHkmAA

vaj xfr r hiffkefy ukmAA 1/4uk&4/2

vki usks/vkRe&hkeeu dkluku dj ukgs fd nf; kesyRk Fk
 dj ukgs eav/k dks hnkqjwki useu dksnf; kesyRk Fkdj ukgs
 fd bl dkv/kRe&hkeeu dkluku dj ds kqkdkj ukgs eav/k dks hnk
 gmBd D kck gS bl fy, 1/4l y1/2 g ck gS/1/2 ddhQyrw
 ckqjculohckag budkQk nkdn ugj, skmi nskdj usdk
 HhdlsZk rkugd nf; kdkmisi kA mI sdg&nf; krksgeljh
 nfhgbz1/2ks[kdj vki gatc rd ; snf; keakksu [kky\$
 t k j M t k j 1/4thrj g abT r u gst k 1/2l hlkpyrkHh
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ogakYehd yVrkrk vki dkgt xgi rkgS vki usgn phugaj
 gS t c fp-kdWdhrj Q t k j krsavkrhgs og t xg gh, shgs
 i gMdsdp l sxtjhusokyh1/2sdl kfkv1/2 yks HhRsa tc l Ir
 _ fkvk] mI 1/4Yehd 1/2sdg&Bqj t kvksHdZ1/4 fkdgr1/2D k
 dk gS dgr&N1/2deay ; gkj [knkA osdgr1/2 k 1/4Yehd 1/2
 dgr&ejskgd gSeayVrkgA1/4 fK2dgr&rqsy1/2k 1/2
 nsiki NkA ge rksj [knkA ykskrqnsiki NkA og dgr&yks

e&dsknA ft rus[kr]spj k[s]A mu 1/4 f'k [k]usdg& suga
ck] tk 1/2 d[ys]k[s]A \$1 v[A rjs[gelj]schp j le v[ls]; si N[
I lekuA t c og ?j x; k vi usf rkdks A og dgr k[es]ks k[s]
[k]ung[del]dj f[kykn]se[ss]i k[ad]kft Eesj ug[A] erkushh
; ght dc fn k I Hhus ght dc fn kA og 1/2 v[e]ld 1/2 dgr k& k[s]
vds&vdsfudy\$; srksdN u[glacu]A okl vldj m[u] usdg&
t h[N]deay vi ukm[kyl]A B[ol] g[s]i k ght; krkg[s]j mu i k[la]
dkdkzmi k Hhcrkv k mu l c us ylg dj dsdg& d[sg] n[s]
j le& le dga i j m[i] j le& le dsl k[fp]ku dj smi dka og
dgr k& k[hnezu]gadg k vkk ghug osi N[er]D k vkk g[s]
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myVku t i r t x t k[uk]A ckyel k Hk cze l ekukA
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osdgr &ej k[re]j ku N[ek]k[r]ksj le& le g[st] k xlA v{lj cny
tk xkv[ls] i j e[so]j cny n[s]A og f[oj] cB x; k og dj usyxk
ej k[re]j k j le& le g[s]x; k m[i] j n[ed] yx xbA og rksdN v[A]
N[ek]v[k]Zekyhv k[n]ehr k[g]skugag; fn og b[l]j tk rksmlj
Hhbrukghpyrkgs t kxkM v[k]sdlkst; krkpy\$og i N[nsdlk]h
asghpyrhgs kM kxkM v[k]spsy\$uki N[ns]pyA b f[y], t c
mu 1/4 f'k [k]usdgkv[ls] t c m[i] j n[ed] yx xbA 1/2frgk ea
fy[k]g[s]v t q dks/v[le]ku g[s]x; k HbZejst SkHD dksZu[he]s
d". kds k[re]j grkgw j l e; A d". kusdg& k[s] b vgdj usks
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ule v[ls] vgalj r[s], d va%[dj]. keabdVBsj g ugal drA

ftruhnjs vgalj gsmtruhnjs ule ugA vk nu kdkfpau dj k\$
 vk[j] eavk ^ge-ege vfe* dgssksQ ogkule ugak xk
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 i dNjugavk uA eHhvi useu dks*frkqjw*Sghvk dsgss
 tBkejskgSukBd gsd fy, ule dks*c* rd eu ugai dNA
 vfs fQ d". kysj vkkvt dlsnm usksvk kenA 1/4 t 1/2
 dgrk&dlg 1/d". kodgrk&nkdlg dgrk& svkkenk ghg
 pedrhgA; sQwfxj sgggfs rksdl gsugA nm usdgg& g
 dhehd gg; st c j le dgrkSrc Qwfxj rkgsfs vkld dh
 fn[u]khgpedrhgA cdh 1/4j i j 1/2ted yxhgzA og
1/4t 1/2dgrk&th ge rksHD gsugHD rksd dkule gft l us
 ule dks*dN*j NNA vfe fj sX{; 1/d i gp tkA; fn j krseagh
 ckadj rktk] j u dktk rktk] fj sd dSsi gpks vk dkeu
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gftqu ykbd*l* HNA fy tk hkskA 1/4uk&791/2
 ; gkul HNA ule go"u keakA xq l kgc dgrs&mu fo"u kka
 dkskku yxluk 1/2 kodgrsty tkxk; fn gftkyxkfn kl; ks
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t ksgqk klgd ksgaqkfgAA 1/4 uk&285 1/2
t ksvk l c ds vaj nkuk&chuk t kuusdkykgis j esqj] m ds
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fo"k fodk kseaeu fQ rkx; krksyfkfk g\$lj fQ dkl vk
tk xk fQ kksfQ yfkfk g\$lj kxkA ml ds lkugjavk dk
dle cuukA agrksyr dle gApfy, &
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t ksvi uscukfy,] osk¹knslj j [k² og xq l k³gc usfy[k⁴g⁵
 r⁶h j s k' k⁷g⁸ 1/4hxq vej nk thus⁹&
 ukud x¹⁰r s¹¹g¹²kvko¹³gfr l dhj t k¹⁴AA 1/4u¹⁵&A¹⁶0/2
 dgr¹⁷se¹⁸xq dhl skdj ds xq g¹⁹s; k²⁰a n²¹k²² g b²³zj dhj t k²⁴
 fdruhba²⁵Q dhg²⁶fdrukba²⁷Q g²⁸; fn osck²⁹ g o"k³⁰u xkj s³¹A³²
 <ss/15³³ sku dj r³⁴x³⁵gkt j³⁶hugag³⁷bfr g³⁸ esy[k³⁹g⁴⁰e⁴¹
 Hhog⁴², d j k⁴³j g⁴⁴rc d⁴⁵z⁴⁶cukug⁴⁷xqns⁴⁸ k⁴⁹c⁵⁰gysdh
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 ely l sj k⁶⁹ xkj yku⁷⁰j yldj og⁷¹vldj [k⁷²g⁷³ss⁷⁴ o⁷⁵g⁷⁶ k⁷⁷ v⁷⁸l⁷⁹ le dj r⁸⁰s⁸¹rk⁸² c⁸³ck⁸⁴ l⁸⁵ ky xkj yldj t⁸⁶c⁸⁷og⁸⁸ k⁸⁹ dus
 yxs⁹⁰ksn⁹¹ gB; k⁹²hdhg⁹³ndksmudkv⁹⁴kyx x; k⁹⁵og [k⁹⁶g⁹⁷s x; k⁹⁸a dgrs⁹⁹ k¹⁰⁰dgr¹⁰¹ r¹⁰²shdi k¹⁰³ se¹⁰⁴Mx; k¹⁰⁵ru¹⁰⁶ejshel¹⁰⁷skdj
 nk¹⁰⁸ og gB; k¹⁰⁹dj r¹¹⁰rk¹¹¹ j aq¹¹²j ug¹¹³k¹¹⁴g¹¹⁵ mudkv¹¹⁶kyxus¹¹⁷ s
 1/4k¹¹⁸ 1/2g¹¹⁹kA og dgr¹²⁰&e¹²¹ksclj g o"k¹²² s[k¹²³g¹²⁴skg¹²⁵Adgr¹²⁶&
 1/4gy¹²⁷g¹²⁸' k¹²⁹D¹³⁰ ug¹³¹khv¹³²vt v¹³³xb¹³⁴g¹³⁵qsvi usv¹³⁶ k¹³⁷ ghv¹³⁸
 i rkyx t¹³⁹ k¹⁴⁰ost c x,] t¹⁴¹g¹⁴²gsut¹⁴³g¹⁴⁴ghdl¹⁴⁵ k¹⁴⁶& s¹⁴⁷g¹⁴⁸ft l us
 B¹⁴⁹ij [k¹⁵⁰zg¹⁵¹ og dgr¹⁵²& so¹⁵³jk¹⁵⁴ fu¹⁵⁵ek¹⁵⁶ k¹⁵⁷ fur¹⁵⁸uk¹⁵⁹bu¹⁶⁰kl ef¹⁶¹kg¹⁶²
 ve: b¹⁶³ dkule g¹⁶⁴bruhmezo¹⁶⁵ j k¹⁶⁶; g xkj y¹⁶⁷kg¹⁶⁸xq l k¹⁶⁹gc
 1/4q v¹⁷⁰an¹⁷¹no t¹⁷²h¹⁷³g¹⁷⁴ks¹⁷⁵Q ; g >k¹⁷⁶y¹⁷⁷l¹⁷⁸kg¹⁷⁹Q cr¹⁸⁰ek¹⁸¹rk
 g¹⁸² m¹⁸³ usdg¹⁸⁴&u¹⁸⁵z¹⁸⁶ks¹⁸⁷g¹⁸⁸cv¹⁸⁹nehd¹⁹⁰ k¹⁹¹t c v¹⁹²ksx; kr¹⁹³
 ck¹⁹⁴o¹⁹⁵kt hdl¹⁹⁶ gysghxq l k¹⁹⁷gc usdg¹⁹⁸g¹⁹⁹jk²⁰⁰& j²⁰¹hr²⁰²sl²⁰³h²⁰⁴ dj
 y²⁰⁵sv²⁰⁶ vt xqxm²⁰⁷hn²⁰⁸shg²⁰⁹ m²¹⁰ sug²¹¹tk²¹²i r²¹³k²¹⁴ a t c xkj j [k²¹⁵] v²¹⁶kh
 xkj d²¹⁷ k²¹⁸l²¹⁹ku dj d²²⁰1/4q v²²¹an²²²no t²²³h²²⁴g²²⁵& y²²⁶h²²⁷ dj ys
 l²²⁸ku A m²²⁹ usd²³⁰ j fy; k²³¹a dgr²³²& k²³³l²³⁴ v²³⁵k²³⁶x, A c²³⁷B t²³⁸k²³⁹n²⁴⁰hi j A m²⁴¹

t ylgst ylgdlsqyk k osyl x, A mli usdg& p dlsvp ugja
gshj rwdg nst ksdq dgukg og t c mli usy lgsu gyhck
dgh 1/4q l kgc 1/2dgr & uelkakd elu g furkuladk rku g
fuj k k k k k k k gckd 1/2 1/2 q nku fn, A t kdj ogkn kyls
ckmyh l kgc 1/4q l kku e mudsgpeA cld c'ksx, g
, d& d q nku dsl lk, d& d c' kA bl fy, HbZl dhdj uh
dkQy ga t c rd ; g xq dkgs pe eludj xq dsj krsugapyr k
bl es d k uga

J n koku yHrskuar Rj % ar sfnz %
Kluay Okoi j k k frefpj skvf/kxPNfr A 1/4t k4@39 1/2
xlnkeas g QSykfd; kfy[kdj] D k dgr kJ n koku dlsbZoj
feyrkgSi j 1Rj k g v lS vU u fdI hdhJ n k gsvlS
1 ar sfnz* ; kfu bfnz k j yxle i k x, g a bfnz krlsQ rhgs
Hxhcnakk ? k k adhrj g] ; g plk hcurk g mli sdgs rjsk
plk hcurk ls OtygDvHhrksvfnz k j yxle i kugai dIA
D kgs lbd fy, HbZl n koku i q "kfy[lkgSmk] i q "k j n koku
gst lbd dhJ n kgs lbd kgchau kA bl fy, xq vej ns dgr &
ukud xjqr s# gkvko gdr l dhj t kAA 1/4uuk&490 1/2
bZj dhj t k 1/4PNK 1/4k xq dsl lkfeydj ge xq gsk,]
fdruhdl kgblA bl fy, HbZdj uhi zkugA vc i < HbZgi &
gkfnb j k ksfj vi qs
vi ukcukfy; kfd ugj xmnhi j c ksfj kxq vannsu &
ukud vandksci qj kAA 1/4 e i pjqbg t x eksoj kAA
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oghpky pylbz leZdlA leZi vZ q "kdsfukdlsZpykuga

I drkA $\frac{1}{4}$ hxq vt \tilde{n} s t \tilde{h} gr& akds lk , b \tilde{s} t k \tilde{s} g \tilde{s} l akds
 i lk nkrefdj] yU hyslj] nghyslj] fell hij k \tilde{h} yhslj] l; lt
 yslj t \tilde{k} rg \tilde{s} ; g \tilde{l} c d \tilde{d} crk k \tilde{j} v \tilde{l} s i s y t \tilde{k} rg \tilde{s} ekk \tilde{x} akt h $\frac{1}{2}$
 i s y xb \tilde{z} ogkf \tilde{y} [k \tilde{g} g \tilde{f} rg \tilde{g} k ea u \tilde{u} s ip Ng dls l leku mBdj
 ysxb \tilde{z} t c og xb \tilde{z} m \tilde{m} clck $\frac{1}{2}$ t \tilde{h} usn \tilde{k} fy; k \tilde{j} clck rks
 va; k \tilde{e} h \tilde{r} kA clck dls Zeleyhv krehrlsuga \tilde{r} kA m \tilde{m} usdg&ekr k
 dls vi usi d \tilde{d} lkf \tilde{o} g \tilde{s} kg \tilde{s} v \tilde{l} s fd \tilde{l} hdksugad \tilde{s} kA H \tilde{h} kyxhg \tilde{z}
 R \tilde{k} A m \tilde{m} $\frac{1}{2}$ ekkt h $\frac{1}{2}$ ust ldj j [lk $\frac{1}{4}$ leku $\frac{1}{2}$ v \tilde{l} s $\frac{1}{2}$ clck d \tilde{d} akt hu $\frac{1}{2}$
 l; lt mBdj $\frac{1}{2}$ i j $\frac{1}{2}$ ekh \tilde{h} d \tilde{d} h $\frac{1}{2}$ usdsfy, $\frac{1}{2}$ $\frac{1}{4}$ k \tilde{k} e $\frac{1}{2}$
 dgr& q \tilde{q} ldsf j , b \tilde{s} r k \tilde{s} k \tilde{s} l k \tilde{k} dki $\frac{1}{2}$ og j x \tilde{k} cal k \tilde{g} c i sk
 gq v \tilde{l} s i < kHhv \tilde{k} ghclckd \tilde{d} akt hu \tilde{h} b fy, H \tilde{h} b \tilde{z} v \tilde{l} q"ka
 dscukugd \tilde{s} k&

x# i j e \tilde{s} # , d \tilde{k} st k \tilde{k} A t \tilde{k} fr l d \tilde{d} l \tilde{s} k \tilde{s} j o \tilde{k} kA
 $\frac{1}{4}$ uk&864 $\frac{1}{2}$

xq v \tilde{l} s i j e \tilde{s} o \tilde{j} eadlk \tilde{z} Zugag \tilde{s} ki j aq fn i Ddkxq g \tilde{g}
 czeKkuhg \tilde{A} ; fn czeKkuhu g \tilde{s} r k&
 dkpskj \tilde{r} sedfr u g \tilde{g} kAA $\frac{1}{4}$ uk&929 $\frac{1}{2}$
 dPpskq l s \tilde{d} l hdhe \tilde{d} r vkt rd u \tilde{u} g \tilde{g} &
 x# d \tilde{d} hi kgfuoy eu d \tilde{d} l \tilde{s} kr udNfr AA
 ukud x \tilde{j} f \tilde{c} u eu dkr kd \tilde{d} u m \tilde{m} v \tilde{l} oj u d \tilde{d} hgf \tilde{f} kAA
 $\frac{1}{4}$ uk&1237 $\frac{1}{2}$

czeKkuhdscukd \tilde{d} l \tilde{s} dphuganly s \tilde{k} keav \tilde{l} Kku k \tilde{k} hdph
 g&czeKkuA t c m \tilde{m} sageKku u \tilde{u} d \tilde{d} hd \tilde{d} syxk xk H \tilde{h} b \tilde{z} x \tilde{j}
 d \tilde{d} hi kgfuoy* i kgule $\frac{1}{2}$ gr \tilde{s} &r kysdlA vKlu dkr kykl cds
 vaj yxkg \tilde{s} yxkg \tilde{s} u \tilde{u} ag [lk \tilde{s} y \tilde{l} st lk \tilde{s} yxkykA [lk \tilde{s} us

dýkblzj Htsk ogfeyk xlA og fy [lkgS k n k] eAtc th
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 Bldj\ dgrk&Bldj\ rksqg cngsx; kvls brukcnngsx; kgS
 ejssfrukvls i 'kpj kj gkgS khysspkygAm 1/2ge. k2us
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 i gy\$; fn' k lc i hyarki jsgst krsgA og, d 1/2kne1/2dgrk&
 dgrk t W vklkrki kky i gysgksgfsm seu Hj ds k lc fi yk
 nkfQ i jkgs krgs vls ugt; krknli dhcNzA l ksl fy, og
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ft ruhnjs v k 'kqk fudle l sk fudle deZvls ule ug
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tc gj efi I kgc cukukFKA dgr & th, tsdj asosxq I kgc 1/2
dgr & c yk/ksmt A dgr & jpk l sd rlsogk cbk gS dle dj us
dkyA nt QOM xlp eahsNg ff [kdgr & m sys/v/lst kdj i j
m us/kukughaA nt usNNi dMgSpacrykcuk kgSag xlpo dk
uaj nkj cukga cl fQ osx,] og 14gylk dgr & efs sekurk
ughaA tsqvlak sekurkughaA kurkugaA m jasdg & dMyka
nksyks i dMij [kpojk plj eljk uk / Dd\$yks vki dksdg & ; g
D kdj rsgk dguk & ggelj skq dkgpe gA xq vt Z ns usgea
HskgA yks dgr & c ukld sdN dgsxq dspe ean[ky u nA
xq dspe ean[ky nsj cpo eaejk k1Q 1/2 k xlA xq dkgpe
vVy gskgSm i ean[ky nks sekj st kvksA os hNsksx, A 14bZ
cgyksdlkspk] tc l ryq 1/4f ; k1d vki] ogkrd ck/dj ykA
tc l ryq eaulo easB x; k NNt k hQddj nf; keg 14bZ
cgyksdlkspk & [ksp nA dgr & vxj rvfj Hk x; k dgr & c
HksusokykughaA vc uDlkvkx; kA fQ og l d svksx; kA ds
14skdj 1/2 hNsMqdy l scj kcj i gpa t c xq I kgc dsl leus
vldj elrd >qk k jasdg & D k dgr & t h Hvd x; kFk &

Hj esf fj uj nshnskAA Hj esf kl k/d cgeskAA

Hj fe Hj fe ekufkNgdk AA nqj egkfc[le bg ek AA
xjefj kHze Hksk fe Vkv kAA ukud r sj e l qki kovkAA

14uuk&2581/2

os kj sHe xjedkusrksfekfn A He easf ho&
xjedf kdfy fofo i j xVgks kAA $\frac{1}{4}$ 110zjnk 1@27 $\frac{1}{2}$
t c ogdkgks kHbz kgc us
Rksks u l klcfcu l klcju fnl St x fofo dks kAA

$\frac{1}{4}$ 110zjnk 1@22 $\frac{1}{2}$

og dgr k& klcfcu kdkz klcfcu klcfcu lkugjA
fj vksfy [kgs&

xjedf kdfy fofo i j xVgks kAA $\frac{1}{4}$ 110zjnk 1@27 $\frac{1}{2}$
xq ukud dskj seafy [kgs& xjedf krkdfy; q eav k kgs mli us
vldj l kj hnfi kRke yh fd ugha clc j dksvk [kj elChekkuh
i NAA os^{1/2}q l kgc^{1/2}dgr & rjss q kausqscs kghrhg^{1/2}gelj k
dkz azkuga i acqpkukdj uk; gkrusxyrhdhg&

j ru foxf foxks dkhelv k l k u dkbs AA $\frac{1}{4}$ 110z360 $\frac{1}{2}$

ogkfy [kgs& xk kgc ej; srjsdksu Ru fcs kAA; st ks
rjsv/f/dkj hq; vls yks g d fy, Hbz t ho dksnfdj pyuk
pkfj] l kks krspyukpkfj A, ksu pyrkj g; gck ughaksh
ga fopkj dj pyk^{1/2}Aij dkspyukg^{1/2}fj ogknti j krsdkNAA
ukA xq l kgc usfy [kgs&

fl efj fl efj ukeckj ackj AA ukud t hv dkbsv k AA

$\frac{1}{4}$ 110z295 $\frac{1}{2}$

; fn rwk k l $\frac{1}{4}$ 110z100 $\frac{1}{2}$ dj ukplgrkg^{1/2}f ej u u NAA kdkHq
l hikj ktkgs, dkkzki j tkdj rksla i i tr gsk xk cNAA
yahpkfj gopkj dka py] pyks/vks&

l kpk l kgc dj n fej ok kAA

og l PPK l kgc g; og l rkcsj du $\frac{1}{4}$ 110z100 $\frac{1}{2}$ si jesoj l nk

esj clu g~~A~~^g kesj clu g~~S~~^S vki dks i kuhnsfn ~~q~~^q / j rhnsn~~j~~; s
' j j vki dki lpler Rkdakcuk fn ~~q~~ I j kd~~N~~ dj fn lA fQ
vki ds[~~kus~~^s] usdk i z~~k~~ dj fn ~~q~~ i gysvki dks fd; ~~q~~ fQ
vki dki kyus~~kk~~ fd; ~~q~~ fQ vki dhy; r~~q~~ I j hft Eesf; kys
y~~A~~^A kesj clu g~~S~~; fn ge; g / j rhcu usyxabdV~~B~~ dslj]
cuky~~ks~~ vki \, d fgl k~~1~~¹ d~~u~~^u j~~V~~^V Hugdakj rhdks~~u~~ A bl fy,
cM~~esj~~ clu g~~&~~

i kp rr dks uj fpv l~~st~~ kugapri~~jl~~ tkuAA
ft gr smi ft vksukudkyhur kfg eSekuAA 1/4uL~~u~~&1427 1/2
bl fy, H~~b~~ Zft I usqscuk ~~q~~ m~~l~~ sh~~y~~ ukud H~~b~~
I Hukt hvkdkbd nk~~kl~~ kse~~sl~~ f~~j~~ ut k~~z~~ AA 1/4uL~~u~~&2 1/2
bZj dksu H~~y~~ u~~q~~ cddhns~~f~~ kH~~y~~ vt l~~u~~ k~~l~~ j j bZj dksu
H~~y~~ u~~q~~ AA i j ; g bZj dks H~~y~~ vt k~~ko~~ f~~nf~~ kdk~~s~~ kn dj rkgs~~S~~
myVhck! vki I qssdHhcB dj n~~sk~~ ugk~~/k~~ d~~j~~ A fQ vki
n~~f~~ kdk~~s~~ kn dj k~~sf~~ bZj dks kn dj k~~se~~ avki dks i W~~r~~ kgw
dj ukrks~~Z~~ j dks~~sd~~ Hht~~q~~ H~~h~~ g~~S~~ bl fy, H~~b~~ Zog cM~~esj~~ clu
g~~g~~ l kgc g~~g~~ og ekfyd g~~g~~ bl fy, m~~l~~ dhesj clu h sM~~g~~ og
I kgc g~~g~~, d dcj~~j~~ i Ehejs~~l~~ k~~kj~~ grkR~~q~~ cM~~eg~~ q "k~~fl~~ AA m~~l~~ us
tc ck dj u~~q~~ 1/4grk~~z~~ g~~g~~ l kgc R~~q~~ g~~g~~ l kgc rksq ukud g~~g~~
; kl kgc dcj~~j~~ g~~g~~; g l kgc rksd~~N~~ ghgq g~~g~~ dg~~g~~ k~~v~~ k l c dks
I kgc dgst k~~j~~ g~~g~~ bl fy, dcj~~j~~ I kgc ; kxq ukud I kgc th
g~~g~~ g~~g~~ og dgrk~~nsh~~ nsr~~q~~ Oykl kgc rksq g~~g~~ vki budsvks
elrd D~~l~~ >qksg~~S~~; sl kgc g~~g~~ og dcj~~j~~ i EhcN~~l~~ i DdkR~~q~~
bl fy, I kgc esj clu g~~S~~ vc i <+>~~l~~ &
I kpk~~l~~ kgc d~~j~~ n fej ok kAA

ogl Ppki j eſej ghl kgc gſ nkesj clu gſ esj 1di k/dj
Hhoghl drkgſdi kbzj 1/4 xlgydhrj QI spyrhgſdi kſ gſ
I sugadi kurhgſ; grksbzj dhrj QI spyrhgſdi kfdi h
thodſi k rksugapgsch cik Hkarkt k] rkſdi kſ gſt k xlA
nj xlg 1/4 q/1 smi dkgr vkl xk mti dſeſkli st kſudyxkli og
I ghv k xlA yk dgrsga Hkbl a us g cik dghfka , d nkſ
1eyjsdkyksdi k , d xlq/æd a fkgj ule nk] ekvdk dk
pskA og dgrkſ [kfga] bebyekuk Hhdks&vj t̄eq Hkks
I kjs; gkli svk Hkst kvlkli kkeast frv krga Mht k xhj mli
I solst HkksA ogl cdki gysghdg nskfki j aefasugan kſ eſ
dgrkli gyspyst lukt gſmu egkt uksudgukli kky gſ t c eſ
nljyhdkj x; kA 1egkt u1/2gr&t hqj ule nk dhrkli k hckrli p
gpa easdg&c rksv k mti si kky dgrſt h̄ i rkuga
fka og c' kkgqkfkli og Ht u dj usdkykfka b fy, tc b ds
vaj bzj dſd vaj fka svakvkt k] plgsd dhvkk[lg]
tk] vklrkſd dhnsksa gpfy, &

cakl kvkejs ſrxq i jſ

i k kfd ugac 1/4 d 1/4 rxq i jſ ſ i pe i k' kg dka ; gſ
†frxq i jſ mudkdkli gſ xq j lenk A vls rksugadkli gſ; g
rkli hckr gſ og ejss jſ rxq useu dkszqny fn k̄ ogvc
dgt k xlk

I al f̄ vafj i HnBAA uleqj HklykxkehBAA

1/4uk&293/2

i pe i k' kg I ḡeuheadgr ſ rkli da 1/23/2 "Vi rheA og
dgr&l al f̄ vafj i HnBAA geuskq j lenk I a dſ k̄kfejdj

vi usvaj bZoj n[skA vc geadHhog H[yrkughA og brukehB
yxk geaHyrkghugavcA dksZ, bsh1½dn'V½pti [ky\$nti s
ugarknjs H[yrkvnehA ule rknfj kdhfeBk gS ogkQj hm
usdg] tc og vkkfd ugari ea ntidhekusl jkl leku j [k
fn lA dgrh& lsi n[skZ/k us[lkj gsdHk Qj hm dksdgrhg&dss
ehBk og dgrh&

Qj hmkl dj [kaquokr xbek[kmelakn]A
I H[skol rveBh kjc ui t[fur]A 1½uk&139½
dgrh&ek] ½c pht ½etBhgs j rwsZoj dkLdn ugan]A
; fn rwsZoj dkLdn n[skysh]fQ , tsD ledgh rwsZoj dk
Ldn ugan]A bl fy, I cl seBkZoj gS d seBkm dk
ule gStc rd bl si tr u gsk] bl sD ki rkdskgS og , d
n'Ma nssgphs/ kRhnj , d rkj grhkhued dsigMj] , d
j grhkhfeJ hdsVgMj A ; g , d vyalj gS oskskhdVbhgs
xbA og dgrh& bl i gMij A dgrh& mti us n[sk
uedhu& lA og ½eJ hdyh½dgrh&cgu ejsi k vlukrjheiss
i k vluA og ½ed okyh½gysghaikslr dj vlo]mti ½eJ h
dyh½usdg&mti ½eJ h½ sd sirkyxslA og vlo]A eg esaud
j [kylo]A rkgdN feys ku feyA og ½eJ hdyh½
dgrh&n[skcgu mti us ½dkj ½dk dgrh& lA og dgrh&
eg esadN Ndj rksugavlo] dgrh& Ndj ylkzAvdgrh&
fudky mti A tc og ½ed ½lA kfudky fn k[rksog i Nrh&vc
dgrh&cmeBkA bl fy, fo'k fodlj H[sgq gsvHhZoj ugai
ehBkyxr] nfj kelsBhyxrhgs/½t c bl smi ½Zoj ½dkLdn
vkx; l fQ nfj kuedhu yxslA ft l fnu bZoj ½sule½dh

feBzey xbz]n̄ fru l c dñ [k̄ kyxsA vHbd sbzj ugj
: gfu; r ugab si k̄r gba b svi usla i dkvHbklu ugabgk
fu p; ugabgk i k̄r ugabgpfy, &
caq kovkejs fr xfj i jS

i jS rxq ga&; gkxq j lenk A og dkgs gS l aA l a vks ds
eqkcd 1/4ublj 1/2dkZ st kuj gssg l arksZj gskg&
i s Hxfr mkl fgl sukul dfj fdj i kl aoyki dfj vkgSA

1/4uk&13881/2

ft ruhnjs i skHD dhoffr vaj ugakshj mrusnj og l a
ugacurkA dgr̄sthi skHD D kgS i skHD og 1/2s i s , d
i j esoj dsl kkyx t k] n̄ dkghf ej ug&

ft u i s dlvksfru ghi tki kovkAA

I kp dgsl q ysdj Hsft u i s dlvksfru ghi tki kovkAA

1/4 e xk1/2

n̄ osik' kg 1/4hxq xlaf g l kgc thdḡstc i Mkl c u&
edj ktA bzj dhi k̄r \ ogdgr̄s p dgrkgkHbZ d ck l qyls
&ft fu i s dlvksfru ghi tki kovkAA tki j esoj dsl kki s dj skj
og i j esoj dksfeyk og c' lkt k xlA n̄ l a xq j lenk usgs
geljsvaj bzj fn[kfn l a bzj rk cdsvaj g&

?V ?V eSj t wl \$ au dfgvks qkf AA

dgakud frg Hlt qekHlmuf/kmrj fg i kf AA 1/4uk&14271/2

bzj % odkule-anndksvt q fr "Bfr A

Hk; W odku; Ukk <ku ek ; kAA 1/4uk18@611/2

; grsek kds akesQ kgSft l fru ld sog 1/2j 1/2 k̄r gk
x; k̄

I jc H₁w₁k₁ oj r₁j₁kAA I jc u₁v₁k₁ i \$kug₁j₁kAA
I xy I ex₁t kdkrukAA v₁k₁ut I ay₁k₁ g₁h₁ q₁kAA
v₁k₁ou t kudpdq₁k₁g₁cukbv₁kAA v₁k₁xv₁k₁ldkj₁hdhuhekbv₁kAA
I HkdSef/kvfyi r₁k₁g₁A t ksdNqdg₁k₁ ay₁k₁ sdg₁A
1½uk&294½

; s₁k₁d₁, s₁s₁ak₁h₁] og₁fy[k₁g₁oska e₁a₁N₁[k₁gdj₁] m₁ us
dg₁&j esq₁ r₁k₁ a g₁og t₁h₁ d₁scu t₁k₁x₁A n₁k₁dk₁i f₁. k₁e
nghcurkg₁og f₁q₁ n₁k₁ugiacurkA ; fn₁og l₁a t₁h₁ cu t₁k₁x₁k₁
f₁q₁ b₁Zq₁ f₁ll scukv₁k₁g₁og b₁Zq₁ u'V g₁st k₁x₁A n₁k₁dkukkgs₁
t₁kkgs₁f₁q₁ b₁d k₁kt k₁v₁k₁ g₁sd u₁h₁og g₁st h₁A dgrs&t₁k₁
m₁ dhdeZ k₁D₁] vua ' k₁D₁ g₁og t₁h₁dk₁spyl₁h₁g₁A og vua
' k₁D₁ deksdsvubq₁ t₁h₁dk₁spyl₁h₁g₁h₁g₁A og b₁ sugai r₁k₁
f₁ll rj Q dks/k₁D₁kn₁kg₁g₁fdl rj Q t₁lk₁g₁fdl rj Q u₁g₁A
b₁fy,] ogrk₁R g₁g₁A
I HkdSef/kvfyi r₁k₁g₁A t ksdNqdg₁k₁ ay₁k₁ sdg₁A
1½uk&294½

g₁deh₁g₁e n₁ssokyk₁r₁k₁j esq₁ g₁g₁m₁ ds₁g₁e e₁N₁g₁skgs₁
r₁u₁g₁

g₁fe e₁uv₁S₁g₁g₁j ok k₁q₁k₁[k₁e₁l₁kegy₁q₁k₁ h₁A

1½uk&471½

b₁Zq₁ dkg₁de ekuscukd₁le ug₁apys₁k₁A pfy, &
g₁ks₁ j₁c dfyv₁k₁kAA j g₁kmAA
cl ! l₁c dhdY₁ kkg₁st k₁xh₁ g₁kv₁ldj A ; g₁k₁c dhdY₁ kkg₁ls₁
t₁k₁x₁A t₁c] xq I k₁fc₁ dgr₁\$ i j esq₁ usc[' k₁esj₁ du g₁q₁k₁
v₁k₁dhdY₁ kkg₁st k₁x₁A xq i t₁kn₁g₁ds₁ k₁k₁dY₁ kkg₁shg₁S

i j xq i t̄kndsl kkt i q̄ti 14 hfy [lkgs̄ eyweakes̄] t̄k dj k̄s
rk̄xq i t̄knḡ A xq dhdi krl̄xq uslora kr̄ksd̄i kdj uh
uḡ A t̄ksbz̄j dhrj Q I sḡe ḡskḡsog dj ukgs̄ xq dk̄z
Lora kr̄ksd̄le dj rkuḡs̄ḡp̄e rks̄D̄ehdkpyukgs̄ld fy,] py
H̄k̄s̄

t̄hmi kb̄fi aqt ful k̄t v̄k
bu th̄ks̄k̄s̄k̄dj d̄; s̄l̄j̄j̄ ft̄l̄ usuk kḡs̄ c d̄k̄i kp̄rR̄s̄
dk̄kp̄rr dk̄ruj fm̄ &
fr̄ki S̄. k̄q̄k̄k̄
; s̄l̄j̄s̄n̄s̄k̄s̄l̄ c 1di N̄gudj cB̄p̄l̄c [k̄ks̄s̄; ḡm̄l̄dh
d̄l̄kōs̄m̄ i j ēs̄j̄ dhdi kōs̄py H̄k̄s̄
vi .ks̄k̄ dhv̄k̄f̄ i \$ j k̄kh
vi usk̄ dh̄s̄*&bT̄t̄f̄ ogv̄k̄j [lkkḡ&
ukud l̄ndj̄ck̄k̄A
xq vt̄ns̄dgr̄s̄ēs̄m̄ i j ēs̄j̄ i j l̄s̄nk̄ghdak̄t̄k̄kw̄
v̄ks̄v̄k̄ H̄k̄m̄ i j l̄sdak̄t̄k̄kdj k̄A
t̄hmi kb̄fi aqt ful k̄t v̄kfr̄ki S̄. k̄q̄k̄k̄A
v̄k̄.ks̄k̄ dhv̄k̄f̄ i \$ j k̄khukud l̄ndj̄ck̄k̄A
cks̄s̄ fr̄uleq̄ holgxq! □

I v~~ek~~^{ek} I frxq i ~~z~~^zkfnAA

3

Aukt j hegyk~~z~~^zAA

gfj gfj yhus a mckfj AA

gfj dsnk dhfp roScfj vkbzfrl ghdmfQfj ekfj AA

qAA j gknAA

t u dkv kf i gk~~z~~^zskfuad H~~z~~^zsgkj AA

H~~z~~^zer H~~z~~^zer Ågk~~z~~^zheylcgf M~~z~~^zfxgu eakfj AA qAA

ukud l j f. ki fj vksn~~z~~^zpkH~~z~~^z u xq xlo~~z~~^z nkvi kfj AA

fuad dke~~z~~^zcpkykg~~z~~^zknhu nqhvkdSj ckfj AA zAA

q~~z~~^zAA

1/4 11&674 1/2

I k~~z~~^zh l~~z~~^zar di k~~z~~^z n k esj dj dscksl fruleqj h~~z~~^zgxq!

I fruleqj h~~z~~^zgxq!

v~~z~~^z dksd ck~~z~~^z dki rk~~z~~^zstu t~~z~~^zskg~~z~~^zog i j esqj ds lk~~z~~^z, d g~~z~~^zskg~~z~~^z

gfj gfj t unq, d g~~z~~^zcc fcplj dNq~~z~~^zkfgAA

ty rsm~~z~~^zit rj~~z~~^z ft mt y ghfc[k~~z~~^zekfgAA 1/4 e x~~z~~^z 1/2

ty dkv~~z~~^zrj~~z~~^z d st y dkdk~~z~~^zZug~~z~~^zg~~z~~^zski j aqk qdhml s

hclgj l s d mlfkyx t k h g a q u k t y r k f v d k g q k
g k g q m l e a c k n f k y l f v d k g q k t y g l e s u g l f o l s u g l s
m l e a c k n f k y l s l f y , g f d k t u v l f g f] l k l l a v l f
x p e f k ; s l k s g h i g p s g a k e d k u l e g s v k ; s c r k l s f t r u h n s
d k q u g a v k x h j t y e a d H h Q e l Z u g a v k x k &

I j w f d j f . k f e y s t y d k t y g w k j k e A A
t k s h t k s j y h l i j y u d k v k j k e A A 1/4 W & 84 1/2
; g v k i v k &
v k f n i j w e f / k i j w v f i j w i j e b j p g A A
f l e j f r l a l j c r j e . k a k u d v ? u k u t x n h j g A A
1/4 W & 70 1/2

u ? u k u * D k g s m u d s u k k g s g h t k s g s k & q A b d d h n f V
d s g y l e g a p s u e a r k s d H h i k & q x ; k u g a v k t r d A ; f n x ; k
v k [k q n f k u k l q g c B d j A ; f n v k d k { k l e k k H h f p l k , d k x g l s
x ; k } o g k v k l d k s i k u i q] u k e l s d k s l d r q u g a f n [k s h A o g r k s
, k s h o l g f g r k s v k l d k v k R e k g &
f t u h v k r e q p h i u v k i j e k r e d j k s A A
, d k s f e z f c j [k g S O y q f e z g k s A A 1/4 W & 42 1/2
v k R e k d k s i g p k u k g &
p h u r p h r q u j t u y k b v A A d g o d j y r k s u H m i k b v k A A
1/4 W & 32 1/2

t c b l u s m l o l r o d k s i g p k u f y ; k A x q d h d i k b z q j d h d i k
n s j k d d k e u , d k x g l s ; k &
, d f p R f t g b d f N u f k v k b v k A A
d k y O k d s c h p u v k b v k A A 1/4 e x k 1/2

nl oai k' kg ¼hxq xlca f g t hzegj kt dk opu ga
bl fy,] vc vki ; g crkvls vki dsvaj Hhrkskskph ags, d
ofR ¼ ky ½, d psu g ofR cRhdt xg gsvls cRhds
chp t lsvfxl gshgsg psu dht xg g D lk psu dscukdlsz
i vklr aquags i vklr kge nsugl drfdl hv ¼ & ½ ls
ghyslj fn kt k xlA vki ; g crkvls tc vki vi uhofR dsruk
chukl kbozsk gsskskstc vki dhofR] [; ky] ij rsl alYi vkn
clule gmtavlk nksHgsvls t kurshgsvls vki dsvaj nls
phagsxb, d fn[kusokyhgsvb], d nksokyhA vc, d vki
Nk/dj k & Hbzskeal svki D kgl vki Hhrksksk Nk/dj k svki
gkskskskeal s dA, d ty g, d mleak qphmi kkl srj a
cukgsj ugat y dkrkst y ghgskgsj y ugad HhcnlyA; st ls
vki ds; ky g, [; kyldksvki us c d nksukgsj kuko, g, [; kyldksvki us c d nksukgsj kuko, g, [;

Hij hv Sefr i ki kdS fAA vlgqkksukoslsfAA ¼ & ½
mli ule dscukrls vki dkeu 'kqkgskuga ule fdl sdgrs
gs, &

ule dskj s kqkgskuga AA ¼ & 2 ½
I jk ule dskj s kqkgskuga, kfd, x, g, ule&ulehdkvHls ga
vxj ule&ulehrngsksvki I jk hneztls yxkl drsksvki ule
dksulehukcukl drskskuga ogi gysghule&uleh, d g, ulehrngsks
dksdgrs, g,

ebz jfr cknygalk#AA vlgqkewkt lnsk lgk#AA
t Sdkj f. kr fv r h fkt lgk#AA jru i nk f?V ghegk#AA
i fm fm f vloeknop[kk kSA Hhrf gkhol rapt k kSA

gmu evkejshet~~b~~^ZcykbAA vlg~~q~~^u evkt kj fgvkl elkbAA

dgaykud xfj cgedfn[kkbvkaAA

ejrktk kunkfj uvkbvkaAA

1½uk&152½

vc vkk ; sn~~ks~~^{ks} vkk n~~ks~~^{ks} usokysgls kf~~n~~[usokysgls ; gckr vkk
vi usvaj l e> l drsg~~ks~~^{ks} vkk fn[usokysgls kst M~~g~~st kv~~k~~^k vkl R
g~~s~~st kv~~k~~^k feF kg~~s~~st kv~~k~~^k ; fn n~~ks~~^{ks} usokysj g~~s~~srkl R g~~s~~nt~~ks~~^{ks}
g~~s~~Ok d g~~s~~ A vc vkk vi uhckr ; sN~~k~~^k yksd vkk rksed s
, d] D kg~~s~~ ; fn vkk tkur~~ks~~^{ks} qrs~~ks~~^{ks} n~~ks~~^{ks} c dskkrkg~~s~~ls
vkk psughg~~ks~~^{ks} v~~ks~~^{ks} rksd~~ks~~^{ks} g~~s~~ugl drA l R gh~~ks~~^{ks} vkl R rks
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l drkA ; fn vkk ofR dsl k~~ks~~^{ks} fey x,] og tks~~ks~~^{ks} dkgy g~~s~~ k~~ks~~^{ks}
oghvkk dkgy g~~s~~ k~~ks~~^{ks} ; g vkk dh~~ks~~^{ks} og mi fu'kn eq d dR~~k~~
vk~~ks~~^{ks} g~~s~~ v~~ks~~^{ks} ej A m~~l~~ us~~ks~~^{ks} d~~ks~~^{ks} dg~~s~~ & ls D kg~~s~~ og dgrk~~s~~ & ls
La i g~~ks~~^{ks} D kg~~s~~ lk~~ks~~^{ks} ek~~ks~~^{ks} udj rkg~~s~~ og D kg~~s~~ og dgrk~~s~~ &
l ls vi usvkk dkule g~~ks~~^{ks} D kg~~s~~ lsA vkk l c dksdgrs~~s~~ j g~~s~~
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vc vxj rksn~~ks~~^{ks} dhLefr vkk dki j~~ks~~^{ks} l sg~~s~~xb~~ks~~^{ks} c rksvkk th~~ks~~
x,] ; fn l kj hnezdgj dhckrl~~s~~ sfolefr 1~~ks~~^{ks} g~~s~~ksd~~ks~~^{ks} H~~ks~~^{ks} ug~~ks~~^{ks}
culAvkk rks gckr &

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og dgr&cl A cNdi kdh] espydj v k kFKA vki dksdkz
gsk ld fy, &d sfolefr 1/4y1/2gsxbZa i dhA ft l pht dh
Lefr 1/4kn1/2gshFKA og rksxbZd sfolefr] og tksd usfoter
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t YhhdgA nli usdgk nfu keas lskdkzsd oDr] tksc[' ktk
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pydj v k k m l e; xq l kgc dsgkkes d NMAA og dgs
Fsdg HbZdg] ' kck k HbZcNAVslj kmB k dg HbZdg] Qdlj
ogk snkdkj dk l ebA; k m usi Wk& ghgsc[' ktkdsj krs
1/4y1/2pykuskylA dgr&gk t h] ; ghgA dgr& kky gysk
nfu ki kky gskbA i zR eark g yxkgqkgs; g c[' ktkdk
j ktkdgk skrknk og t c ebA; kogk sQdlj] rksckckak
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; scrkvksi Ddhckr & HbZ vlc t Mgsfd psu gks dks gsvk \
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 f y; ~~s~~ d~~s~~^s b / k l s v k f y; A o g v { k j k a s k s k e l l p y k n s k i j a o y a j
 m t d k i r k y x t k x k H b Z d F k d j u s y x k n l s r c g e c r k n s~~s~~; s o k
 x; k g o k r l s u g a A o g k l u h ~~1~~¹ / ~~2~~² d F k d j u s y x l A o g l a
 d g r k & g x; k r k u g a g s i k l s k d & x; k g s m t s d g r & r k l u h x; k
 g s d g r k & u k t h A f q d g r k & r D k e c r k j g g s t c r w; k g h
 u g a g s ~~1~~¹ / d i z h u s d g ~~1~~¹ / x; k u g a k k u h A b f y, t k s x, u g a g s
 c k r a u k d j A o s r k s f i e j u d j ~~s~~ l s k d j ~~s~~ m u d k v a ~~%~~ d j . k' k o k
 g s d j Q k n g s t k x l A ' k h k l I Q g s d s e f k f n [k t k k g s ; f n
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 g s b d f y, t c r d ; g l k s l a i d k u g a t k u k A v k ; g c r k v k
 b d k l k s l a i g s g g s d k k ; g g s ; k s &
 l H k e f g t k s t k s g s k s A A
 f r l n s p k u f k l H k e f g p k u k g s k s A A
 x j l k k h t k s i j x V g k s A A 1/4 u l & 13 1/2
 o g T; k s , d g s o g T; k s r l s v p y g s o g l a F s d e l r a k u s
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gfdl hvlsrj Quvl̄dkeu pykt k dḡdga bseuv̄dk
Adslkkvls nl̄yht xg fQ rkj gA fQ v̄k fu[kyl 1/4 1/2
ugadg [kyl rkf gfu[kyl t ku] [kyl krksog ḡt ksuf[kyl dls
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m̄ dk [kyl k [kyl rkf gfu[kyl t ku] A nl̄ osi k' kg 1/4 hxq
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vaj cbkḡ eav k dls, d vls ck crkkgw h̄hckr ḡ v̄k
tc HhcBks, d v̄k dhdYi ukpysh̄, d n̄sust kusokykHh
oḡ[KnḡsA bu nkskldYi uj̄ l Kkhzsd sdHhdksZxSgft j̄
gakgs; fn dYi uku pysogj n̄skD kvls t kskD k̄ ; fn og
u Kkr] Ks] ogki j esqj l Kkh: i skj n̄vk: i skukcBkḡs v̄k dh
dYi ukdlst kusdkl v̄k ; g dḡshtZvkt rksQykvnehv k
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ft uhv krep hifuvki j ek redj kAA
, dks fez fcj [kgS Oy q fez gkAA 1/4uk&421 1/2
; g bZj Hhv k dksoga kA kA Ok d 1/4 sfe yuk gS vls ugj
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dbZkS i kdm[kAA vke efg i k j cgegy gAA
1/4uk&276 1/2
vaj vke Sgeq p hifuvkelv kdkegr kt qHbv kAA
1/4uk&435 1/2
tc rd b dkeu ek kdkelgr kt gS svaj vRekoje ugj
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i Yk 1/4kpy 1/2 skdj [kAA ; g [k d dj kAA b f, i gys HbZ
vk vi us kAA i dkst k u kS fQ nfu kdhNk dj kAA s
deZg l st c j nlrhd kAA ; gdk kAA ozdeZk&
e/ek feVs zRum kA r k j Hk fcukufg t kAA
fu k fd; kgS d k r hozdeZk j Ok ead sdSskdjt k xk t k
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r j dl e gk s k d k s t yknA v k s d k s v k B d gk drsgj s i kNs
dker l kAA vkt l svk ; g vi usla i dhfRf dj y k t k
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 v k t , d ckr crkrkgw seqsdgrsgat h ; gk; g dj n^g, bsdj
 nk^g dks^g dgrk & bsdj nk^g e^g d^g Hhdj rk^g d^g Hhugadj rki j ej^g
 fp^gukugadj rka Hb^gt kg^g; k^g gsk; kA D k^g k^g k^gyi u fn^g k^g k^gA
 j k^g k^g i dhi N^g a[k^g k^g A ; sv k^g k^g N^g sv k^g Hhi dkyls^g fd^g
 I h^g hckr g^g vi us^g v kb^g pht - j [k^g ser v k^g fd^g hdksdgserA
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 I ksd fy, H^g b^g og i j esqj Okid g^g si f i v k^g og t ksv k d h
 off dksn^g krkg^g fd uga vc ejshoff^g bl vklj^g g^g vc cny
 xb^g vc Bl^g g^g n^g hgs^g i j a^g zoghsu g^g oghnt^g kg^g sagh^g k^g kh
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 t k^g rks^g k^g sdj rsh^g hga/ k^g < Hhukyssgav k^g t k^g < k^g g^g k
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 vlpj . kdkykg^g sag T; k^g k^g m^g sek u yss^g Bk Bl^g ckr g^g sag , k^g
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vHh; gek kdkegr kt g\$cl ! ek kld sfn[knkj\$ft Aj [kdhgsys
pyA ge i gysksA es A 1/4uk&435/2 dkski dNdsfy, gj h?k
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dj rskvA og t c Qeljy dkl vkkA vtsu nsdsi k 1/pj . kka
es>dkj og dgrk&egj kt ; g D k vls vks dgrsD kFsvls gks

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I kp ufe ejkeu ykkAA yksu fl mejskBBkckxkAA

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; s1/4c1/2dgs1/4q I kgc1/2& Qdj] ejsk BB&ckx 1/4i j h
Qogj 1/2g I j ksj ; gkcsxk dltz gsk xq dkgs gpi jk
gskA xq dhvkkgs; gkugkxsys] i q gskij ejsk; g
BB&ckxkgsN kp ufe ejkeu ykkAA , d ck ule ds kkeu
t k] fq dlsz : j r uga, d ck dhgt : j r g&

ule l fk ft l dkeuqekfuvkAA

ukud fr ufg fuj t uq kfuvkAA 1/4uk&2811/2

cldhD kcpk 1/4j 1/4l dkeu ule esaqavk k ule rksog t ks
nkkgsfd ugaofR dlsg og gfofR rksugagsuleA ofR rks
vk xh] l dYi vk xkt k xk] ; ky vk xlkt k xkA og vku&t kus
dykbzj uga

t kbgd k lgd kbgaukgAA t ku. lgj sdmcfy t knAA

1/4uk&8851/2

; g t ksvk nksqslsu k krl&klu&ksA / krl&/ k u&/ s
1/4zj 1/4l I snj&njlyvyx&vyx 1/4SA ; g fcYdg bzj uga; g
rkesfz tkgs k h t ku. lgj sdmcfy t knAA vki dsrav , d
t kusdkyholrqkhrkgs og D kgs crkv k svk crkrk , d
i sh&t he 1/4gj kt thussdgk&vks] uj gusss&

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1/4uk&2691/2

i sh&og bzj gfofegj kt 1/4SA

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egj kt t hñ nkoxsg dñ ugá i nkruv[lg fd; kg i nk
vkneh[lq dj rkgfog i nk vknreh[lq dj rkgfog i nk svgalj
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gmgmHfr Hbvkgfchoks 1/4LL&624½

og rksvgalj dhrlkj rvs[lq dhga m dkd knkska; g
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t udkvki I gkzsk

vi us sdledhvki I gkrkdj rkg i zykn dhdhj ulens dh
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dcji dgrk&ejst kurkspl 1/4gt @vke 1/2 in esKA og D k
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fua^kdj usl ſnljysdkH^l mB^lusl ſvi ukugamB^l k t k^lA
nljysdkmB^ldj ej kt k^lx^l fdruknB^lx^l og b^lzg^l ghdle
dj skl k^lA og fuad H^lb^lzfd x,] m^l I ggh^lhxq vt^lns th
dsfj k^lh^lzlhv^ljs g^lsk^l k^lk^l

Hler Hler Ågkaghew

og ogadl^l gvdsc^l dhrj g^lrkj g^lAA ; g vi usvaj
n^lsl qg^l qjsmB^ldj v^lk n^luk^lH^lzg^l keu ule ds k^lt^llk
gs kn^l; kdholrakds k^lkt^llkgs ; grks/k usn^lukgs^lrk
rks/k g^l v^ls rksdks^lg^l vxj rksog m^lrsheu ule ds
I k^lkt^llk; kvk^lks[grsg^l]rH^ll j^lr e^lle v^lx; k^lrks/k dh
t^lh g^l vxj rc fxusyx x; kn^l; kdhdck^l, lsQy^lQy^lQy^l
rks^lls^lh^lO^lw^ldk^l g^logrks^lls^lh^lO^lw^lxyr g^l

cldM^lfx^lg^lueakf^lAA

f^l dk l ogvi uk' k^lj^l : i ht k^lsd ugak^l] m^l dk; sekfyd
gs' k^lj^lh^l og gs' j e^loj A m^l esl s^lg^l og t kugal d^lskA ; fn
n^ll; kds k^lfey x; k^lf^l m^lj^l ugat kl d^lskA , d ds k^lk^l [k^lA
, d geajpe^lkf^l gl a uscrk k^lfxakfdulj^l , d elshj le g^lk
gs^legrku ea^l , d cok' k^lzh^lOb^lzdzj usoky^lY^lAA og H^lD^l R^l
og, d fruvkj g^lAA og t c rkylc eaugdj v^lrk^lR^l og' k^lzh^l
x^lsj Qslust k^lhR^ll q^lAA og dgavleus^l leusq^l nk^l d c^lA
og dgrk^lH^l! , d rj Qg^lsl ej ft^l rj Qej uk^lejskM^lsj k
uganM^l rjskrkylc uganM^lAA og dgrk^lH^lzck B^l g^l og
t k^ldj cBx; k^lf^l uganM^l i lpdah^ledkeaplykx; k^lA y^l m^l ds
n^l k^l dj ust k^lshA m^l sdgr^l & rjskxq d^lks g^l k^lzhg^lsdgr^lA
m^l I sminskfeykg^l ck^l rksm^l dhl PohR^l y^l g^l i N^l og

dgr hHDrk, d rj Qglsj ej] ft l rj Qej ukgrjskrksj k\$ dk
dle ggrjskrklyc ugaMwkJ ejskVslj kugraMwkJ geusrkj k\$ +
feyukgS gA nti dkrks geryc Rki j aqpg , d rj Qglsx; kA
; g, d rj Qghgdst kA ; fn rksd si j esoj dhi Hfr glsxbzrks
ld dsl k\$ sdle I Qy ga ; fn ugaMwkJ g' k\$ dk' k\$ g\$ h
ckr g\$ og nk tksu x; k\$ og xq : i gskgs nk cuukcN
eqdy g\$ xq cuukcN v k u g\$ xq rks c pht i Wrkgs nk
dksdgrkued ugaMwkJ QykugraMwkJ nk dsfy, rkseidy gh
cuhj grhgs b fy,] , d efgykvkZkhd ugaelyoseA og
dgrk\$ egjk k] v k eacN dks gskgs dgr&xq cN gskgs
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; gi gp tk xkA i s tgk v k dkyx tk] ogkoR t k khs
; gfu e g\$ v k nkyksdH t gk i s v k dkgk off ogkt kA
gskjckrav k\$ fdI hds kkdj rsdA ejss k dj us f gv k kgs
ogke cBgs; gvPNhck dj rkgs ekskyh I akdkpskgs
ld usdkZk ugdalj' k\$ n; gkC Bgs efsdg&kt rwsdj us

fi ej dksZdr ugadlA dgrk&v c ugæs kksd lkckr dj rKA
eas dg&D lk dgrk vlt ejss fny ea; g 1/2 lkZdr R¹
1/2 lkskyh 1/2 ald seaskr dj j gkRKA og dgrsok 1/4 dr ds
i lnsZdr rkgSckræss lkcdj rkgS dgr&ckr l PphRKA
easdg& kksd lkckr ghukdj lk; skvaj dhckr tku tks
gld fy,] tcrd b dkeu, d ckj ugadlA kni ule ds lk
; gulehugacu l drkA m eæl kykyxrkgS A i s vld si lk
gskj rkst lk t lk yxkyksv lkA og , d i lkRkekskyh lk
buds kn gskj og plj i lkZdrNldj yskRkl qg& qg&

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i s dhNshl skZdr gsmi sule t lk l s lk ykA 1/2

mudh lk . lk 1/2 dhLlk hyRKA og l ag ghi lk keagy
pykA egsmt dki rkugakRKA HbZd fy, i s dkel kykt crd
vld si lk ugagsrc rd ; s lk ky 1/2 NksAksfd bZj dksfey
t lk xA i gys i skdj lk v lk rksdkumksusq gsyksdscrz
ek lk sdm dle rksdj lk v lk vc v lk rks gysghvA f ; kesi sk
gq gsv lk dkrksdle gh [kn] g v lk dkrksdsghdle [kn] g
D lk v lk b lk x, ghughe s lk g v lk v lk nehx, ugab lk buds
eqkcd rks g fOtw& kdle gskfj lk gk gskg

eþpykx; kxtjtkr ea mukræsdl lkfrn lk HbZ lkhe ?
f lk x skcqg dgrkRKA easdg&pyk lk HbZ ogkr Eddwagq gsk
g skogkr Eddwakj lk b dVlk fd; kgokRKA m dsl lk kni usejss
fy, fcNlk bZdj nA easmt sdgj mB; gk A dgrk&D lk egj kt
easrkld fy, fcNlk k HbZgok ugayxshj /kuhyx t lk xA eas
dg&gkj skvæs lk lchga bl skplj i lkZdr lk gkj [kn] smi usj [k

nA cr̄l mB usv[ls yks vks A eſſdg&r wga mB k dgr k&t h
ge dge. kyks ḡt kfr H̄V ḡst k xA ge rks kshf kyk x̄sekts us
dys syks A eſſdg&uk H̄b]; g vks dkvl yw[ls e1/4 klc ḡ
dkukud dk; g vks dkvl yxxyr ḡ fQ
eſſm̄ s e>k kA eſſdg&r v̄z ekt A fQ n̄l usdg&/PNkt h̄
ld fy, H̄bZ; g t c rd pj . ksdh/kwyks ksdhugagks fd uga
I Ppsfny I \$rc rd dle uga cuu kA ; g rlsculovhckraga
culovhckrkeasft axhxtqj+ t k xhj Ok nrkrksdNl u ga kA ld fy,
H̄bZ j esqj dknk cut k n̄l dhfxlg 1/4 knfV1/2 &

cngdhu gks kmeksf nAA 1/4 uL&1251/2

dgkfd ugauleus uA og dgr k̄ejst kfk' kr̄y xky\$bZoj dks
dgr kA gelj hot g l svif nkgakgsge >asdj fQ rsga/ls
rjsrldr I sge cprsga j rwoNga/ls ge Nksfck bruhgs
ḡks d ght sA ld fy, I c ea g bZoj dksugan k̄og l k̄s
Ok d ḡl k̄ ht xg i f i wZg d kvi ukvk ḡ; sckr ḡs ld s
vi usvk dkKku ugaggkA j le rH̄Zdsi k̄ , d f kdk r dhxbj
fu py nk̄ dsi k̄ H̄hxbj egsi rkgsn̄l dka n̄l usdg& st ks
uksj ḡNksht kfr] bgaKku uganskpkf g vls L̄hdksKku uga
nskpkf g A ' k̄zvls L̄hdkule vls Kku eadksZgd uga; g rks
dge. ksdh/kdks1/4c j nlrH̄yghRKA n̄l s̄jle rH̄Zdsi Nk&t h̄
bgaKku uganskpkf g] og dgr k̄dks1/4c k̄ugj budkt lef nk̄
vf/dkj ḡ j le rH̄Zdgr kD ka1/4dks1/4c dgr s̄bueav RekgSuga
vi ukvk \ 1/4dkr dj usky\$dr ḡs hvi ukvk A 1/4le rH̄Z
dgr ḡfQ vks dkD keryc\ vi uhpt i j I c dkt lef nk̄
vf/dkj ḡ; ghfu py nk̄ usfy[kkgsl k̄ segRekvlaus ghfy[k̄

gvc ; glc eacBkgpsuA psu dksgekj svls Åpʃfdl hdk
dksQelZgjQelZkeu egsQelZksvksv i useu dkfudkyuk
gfvxj vksdseu dkQelZkfydkrksvksv dkdly HhugacukA
ogeuvksdso keauhdly ksl&

euqfl vloskudkt sju fdj i kgAA 1/4U&298½
eu rc o keavk ; fn bZoj h di kvkA vksdseu d ck
I qkkgjfrgk dlAxq l kgc 1½q vej nk t 1½m dj jy 1/4A½
dsi k [kgs] ogkxkj j [ks] ls ogk [kgs] : d dj fQ
[kym] ksa t c dj go'k jy, A m fnu Hhogkox [kym] og
t ksgB ksh [kgs] m dhg [kym] 1/2gj [kym] m dsi kks mudk
vxekNw; kA og dgrk t hvksdsvxksli 'kz sejhedr gis
xbA osdgr ge rksdjk g o'k s [kgs] dgrkvksdki rk
ugA vkt t ksvksdsvxksli 'kz dj t kxk m dkm 1½t ks
t kxkA fQ vksrskj ghkxnhj l c dly rskj fR fryd
1/2kghyxukfka xq l kgc x,] og t gkdkj t z gch ea
ld fy,] t c ld eadl bZoj h 'kdr] bZoj dhdi kl svkt kxhj
ld ds ljsdkz 1½j 1½j st ksgfukik [kgs], bsdli kfcul 1½
ugA ld fy, og i j esoj fuR gSI R gSKkrkgfva; kzhgS xq
l kgc usks gkrd fy [kgs]

j kkk, dagekj kl qlehAA l xy ?Vdkvaj t lehAA
1/4U&1136½

j kkkrlsdd dkij esoj gsvls dksZd dhj {k dj Hhuga
ldrka ogl c dsan kdkva; kzhgS og vksdso dh1½kurk
gsl&

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y~~þ~~kr~~kv~~k~~d~~seu dsh~~lo~~ $\frac{1}{4}8\frac{1}{2}$ sfy[~~kk~~t~~kk~~g~~ss~~; fn~~ckj~~ l s
 fy[~~kk~~ky~~kk~~ og r~~ks~~yr g~~st~~ k~~xk~~ og r~~ksbZj~~ us~~kk~~i dj ns~~k~~
 g~~ss~~ b~~f~~ fy, b~~smt~~ i j e~~sg~~ dhdi kv~~ss~~ i v~~Zxq~~ dhdi kd~~h~~
 t:+r g~~ss~~Q eu o kea/k x~~kk~~A; gvi us/k ghdj ukplgr~~kgss~~
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 ug~~ss~~e~~ss~~sdg&cuu~~kk~~A D k~~a~~ e~~ss~~sdg& kr~~kv~~k~~d~~ fd~~l~~ hc['~~ks~~si k
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Qj hm [okt s~~ss~~hj $\frac{1}{2}$ dkl~~lu~~ dj k~~kk~~~~ss~~ck~~g~~ l~~ky~~ dj k~~kk~~j k~~kk~~ dk
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 n~~kk~~A m~~l~~ 1Qj hm $\frac{1}{2}$ dk~~lu~~ u~~gafeyh~~ m~~l~~ usNr i j p~~elj~~ n~~kk~~kr~~ks~~
 v~~kk~~ , d os k ds?j rhk ty j~~gk~~~~kk~~A og~~kk~~ i~~gg~~ x; k~~ss~~ m~~l~~ s
 dgr~~kk~~ekr~~keqs~~v~~kk~~ pk~~g~~ A og dgr~~kk~~ & k~~ks~~ds~~nyseay~~st k~~ss~~ m~~l~~ us
 v~~kk~~fud~~ky~~dj i dN~~kk~~ m~~l~~ us $\frac{1}{2}$ okt sd~~kk~~ $\frac{1}{2}$ l~~lu~~ dj k~~kk~~A og
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 fuxlg T; k~~kg~~g~~ss~~ R~~kv~~~~ss~~h~~gk~~st k~~xk~~A og vc H~~bmt~~ d~~sk~~l~~ku~~ ea
 n~~kk~~ky~~kk~~ldj A t c og 1Qj hm $\frac{1}{2}$ k~~kk~~?j e~~kk~~ek~~ku~~m~~l~~ d~~sk~~ k~~ss~~ l~~kj~~s
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b fy, og Qj hm c[' lkx; k] c[' lsgq dsi k t kdj vkehc[' lk
t lkgo vxj b dhfu r l hkgdA

og l a Tdkykf gdsi k ge j gsdVBA og plj ct srd] m
ulyseacBrkFKA ge rls lshhtksA b fy,] fQj og mBrkFKA
og elrks lkgdhc dj rkFKA elrkdh skcMdj rkFKA mja
easi lk&k t h t c mlj lkf fdLrk eazlk usD kfd; k D k
n lk og dgr \$ge v k kf g dsosscua easv k kf g n lk gsh
ej nku lkf fdLrk uzeA easmudk p yk gdsj t lsmudk gde FKA
ekurkj gki j ejssfn y es lkf j. lkf mBj es skoj pykx; kA
i skoj lkdklu elr] esm dsi k pykx; kA og dHhekrkugA
lk Tdkykf gfdl hl A t c og lkf lkf hij gkFKA t c vklki h
fy; k Tdkykf g dgkef dYi dj fn lkHbz vxj lkf eqsns
nA m us, lsseqsi dNf fn k esasi hfy; kA t c esgksh ej nuk
vk k l a lk kf g dgk vkselrkdkt lk kugA rjsrk
i kp ddjk lk [k/leZsvubjk ver lk hgksdsi kp fu ku lk
lkf lkf skdj rsqf R d dj rsqf lk gk kt thdg \$2 s
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ugt fQj bu lk v k lskas lksgq y lk d k dV dj fn kdbz
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D kdj lk [k d dj lk sv k! ; g rksv k dhculv culkZgZgs
e; lk k j Nk k k k k bZj d h e; lk d k st k u k d lk gSh lk
b fy, dgk lk aksuseqs g d k dgA esu g d gk lk x; kA
fQj esokl ogk lk d lk x; lk esokp lk fey lk u lk lk
lk yk lk, lk d gk lk m usd; lk esokp lk fey lk esokl ogkx; k
t c fQj og n k i h u y x lk esokl dYi fd; lkHbz eqsns nA og , lk

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ugai hvc D ksekkrkgS dgr &espiq dj x; kA 1/2djkfj g1/2
dgr &espiq dksva; kchrknsk og tksdkgu Rj og dñ T; kck
RKA m sdkj dg ugarkA 'kj. h' rksn dk[kjh?j dkRj i j
t kfr & kfr m esdkj ugarkA uskyr kRKA b fy, t crd b dk
ogjrd ukeu, d ck Nmtk] b dkdle ugacuukA; grse; kck
dhckrge vki dksch l qkn budkQk nkD kgS kskyhckrka
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ukud l j f. ki fj vksnjkHtau
og t ks c dsnjkdkukkdj uskyki j esqj gpdgrkesm dh
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fr rs'kj. k t SgSfr frvksj k[k y SgSA 1/2 e xB1/2
crkvksdclj] ulens] /kukfr usgdkj vksdclj dk l \ og
rkj [kfy; A og rksogaj g t k xknf fnu] og vki dsdle dkgh
ugaj gkA og dgr &espiq dksva dj \$l kkeq b\$l kkgf, bA es
dg&ksdHhugavks ft l fnu og t [ehglsx; k vki dksdHh

1/2le^{1/2}ugadj l dskA og ft ruhnjs t fehugadj^{1/2} mruhnjs gh
dj l dskA Bal g\$; sckr & Bng\$;

xq xlo\$ nkvi kf AA

vi kj i j esoj dsxqkxk] 'kj. kdsckn ; sdle dj A vkbz
1/2kr 1/2vki dh vDy ea i Nw& kj. k dsckn D k dj uk g\$
dgr k& i kj dsxqkxku^{1/2} cl ! vls>xN^{1/2} g\$; grks[ke
ugadj^{1/2}; grks>xN^{1/2} qlo^{1/2} kj dkgs gbul ku dhdet kj
g ge [kj n^{1/2}ksa i ukeu] ; grks eu dhdet kjhs g t c ld s
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fd; kg^{1/2}QO mt sg\$rsD kgA rws i usf j i j xB hmskyh
i j sku gskA rwi^{1/2} g fu pa gksj] vi usvk yks dj sk gk
pfy, &

fuad dke^{1/2}dkykgksk

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nhu nqhv kdSj ckf AA

nhu&nqhv keam dke^{1/2}dkykgkskA cl ! gks; kA fi Nys n i <+
n&

ukud l j f. ki fj vksn^{1/2}ku xq xlo\$ nkvi kf AA

fuad dke^{1/2}dkykgksk nhu nqhv kdSj ckf AA

cks^{1/2} fruleq hafgxq!

; g 1/4fruleq hafgxq 1/2 knj [ku^{1/2}dga gki j ghdgdj pys
tkvka □

I v_kl_k l frxq i t_kfnAA

4

v_k k_M i akfr l gyx_Sfj ulgau ft aki kf AA
t xt hou i j[kfr v kfx d_Sek k l ahv k AA
nq_Sllb foxqlv Sfy i bZq e dhQk AA
t skcht \$ ksy q_SeR_S ksy f[kv k AA
j Skfogk khi Nqk khm B py hxbzuj k AA
ft u dks k_M h_S v \$ knj xggk [ky k AA
dfj fdj i ki t_kvk . khrjsnj l ugk f v_k AA
i t_krk d_Scuqntakdksguhukud dhv j nkf AA
v_k k_M gakfr l gyx_St l cefu gj pj . kfuo k AA

1/4 w_k&13 1/2

I k_jh l ar dl k n k esj dj dscksl fruleqJ hokgxq!
I fruleqJ hokgxq!!

dj gelgk J hxq vt z ns egj kt usmPpj . kfd; kg_S i gys
dj gelgk 1/2 k gelk k_M d_Sek h j k esj gysi k' kg 1/4 hxq ukud
ns t k_M usmPpj . kfd; k_MA m_S eavyalk cgg R_S l ar usl k h
l ar usbdV_Sgklsj vj nk dhedj kt! m_S ck sheal 1/2 gelgk 1/2
mPpj . kdj k_S ft l e_Sgeal e> v_kA fQ xq vt z ns thus

d^j gelgkm^fplj. kfd; lA ld es R^o 1/4l yhdk 1/2udky dj crk
 fn kHb^zld eghusea lskdj k^zrsks/k dkeghuk' kfr l sxtj+skA
 vxj , lsk ughadj k^zrsksv k B^o uga ld fy, &c vK^kdk
 egukgsft l sgM^zeguk^zge dgrsg^z dkule fgaheav/k^k
 dgrsg^zog egukvk kg^z t lskq vt^z ns thdk^z q nj xlgl s
 okhv k^zmti eghusdcl skm^z dfludj nhpy H^z
 vlt kM^zi akfrl gyxS
 vK^kdk keghukri rkntbyx^zk&
 gfj ulgau ft uki kf AA
 ft uds k gf dkule uga euq dk, d /eZg&
 H^zj k fr ekuknsidhv kAA
 xk^zca fey. kdhlbg r jshcj hv kAA 1/4UK&12 1/2
 pl^zsk hylk^z; k^z kadsckn ; g euq dkt u feyrkg^z ld ea
 Klu&/ kui c vknhdj l drkg&
 fxvku^zljudje vffkv k AA
 fxvku^zlkbvkr gdj eguk^z 1/4UK&167 1/2
 tc rd ld svRekdkl k^zrdj u g^zKlu rks g v k ghg^z
 ld dsrav rkspt ag^z, d rksfr g^z, d psu g^zr h j hrksdk^z
 plt uga og t lsk^z kofr i j 1/psu dk^z/k^z i N^zk^zgsk^z
 og Hht M^zhgs psu, d ghg&
 , dalk# vo# ughntukud , dd^z ek^zAA 1/4UK&93 1/2
 ogl cea dkl ek kg^zkg^z&
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; g i gyhi k' kgh¹hxq ukud ns t h²dkopu g³h⁴geus
I c e⁵ dkr⁶kgs⁷ t c b dhoR⁸, d psul svyx ugat k⁹xhrks
vkuaghvkuags¹⁰A i j esqj Qk¹¹d g¹²f i v¹³ukud dki¹⁴ks
g¹⁵fogi f j i v¹⁶ks

t ufe u ej Su vloSu t kbAA
ukud dki¹⁷fgvk¹⁸ ekbAA ^{1/4}Uk&1136^{1/2}
ukud dki¹⁹ksQk²⁰d g²¹fog dHht²² le²³ej . kest kusokyug²⁴
b us/; k²⁵Yi uk²⁶fy; kcnfkd²⁷ k²⁸A og t kcnfkd²⁹dsle
F³⁰b us[kq³¹ hky fy; \$eu dsdle [kq³² hky fy; \$i k³³ad³⁴l c ds
[kq³⁵ hky fy; A ; gvl yht t ukj g³⁶ d³⁷ j cB³⁸usoky³⁹; grks
pl⁴⁰lmj cu x; kA dyed⁴¹dkxt] d⁴²ff ; kfcN⁴³ku⁴⁴ og rkspl⁴⁵lmj
dkd⁴⁶le g⁴⁷ks⁴⁸ t t usvldj cBdj fy[kns⁴⁹ks⁵⁰ b us⁵¹l c ds
de⁵²ks⁵³ki dj nskg⁵⁴

t skcht S ksy⁵⁵ks⁵⁶j ekl aN⁵⁷[k⁵⁸AA ^{1/4}Uk&134^{1/2}
b dsde⁵⁹dk t⁶⁰sd⁶¹ t⁶²o usfd; \$ obsm⁶³ usfy[k⁶⁴ns⁶⁵g⁶⁶
de⁶⁷; krkd⁶⁸n ugadj uA b fy, i j esqj vki ds⁶⁹vaj g⁷⁰j t⁷¹ks
vki dhof⁷² g⁷³mt svyx ut kus⁷⁴ks⁷⁵ m⁷⁶ vyx ut kus⁷⁷ks⁷⁸ks⁷⁹ kule gh
t⁸⁰le⁸¹ g⁸² b fy, t c rd ; gule dsn⁸³ks⁸⁴ kulehes⁸⁵kr⁸⁶ ugadj⁸⁷
rc rd b s⁸⁸h⁸⁹Z⁹⁰ny⁹¹xs⁹² l⁹³ ny⁹⁴xs⁹⁵ l; k⁹⁶ yx⁹⁷ l c n⁹⁸ks⁹⁹ b s
fpi d¹⁰⁰AA t c b usvi usvki dlsB¹⁰¹ i g¹⁰²ku¹⁰³ fy; k fQ¹⁰⁴ b dk
Qogj g¹⁰⁵ks¹⁰⁶ks¹⁰⁷ks¹⁰⁸ks¹⁰⁹ks¹¹⁰ i kuh hyski¹¹¹ks¹¹²sfy,] fQ¹¹³ ; g
i k¹¹⁴ks¹¹⁵hj { kkdj¹¹⁶ks¹¹⁷ m¹¹⁸ l¹¹⁹ st; krkn¹²⁰l sj { lkageKluhdhg¹²¹shuga¹²²
mudkt ks¹²³guk; kmudkl e>k¹²⁴l¹²⁵ og i j esqj cBdj l e>krkg¹²⁶s
m¹²⁷ds¹²⁸an¹²⁹ e>bruhvDy ugadj¹³⁰A og i j esqj [kq ogkvkt krk
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?V ?V eSfj t wl \$ au dfgvks qkf AA
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cge fxvkuhdm[ksfg eglsjpAA

ukud cge fxvkuhv kf i j elsjpAA

cge fxvkuhdkl xy vdk#AA

cge fxvkuhv kf fuj alk#AA

1/4W&273½

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cge fxvkuhl HkfllfVdkdj r kAA

cge fxvkuhl nt hoSighej r kAA

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ogrksOlk d gS og t le&ej . kl sj fgr uljk . kgd fy, tc
rd vki ule dst lkvi usudksugt lksrc rd vki dsndkdh
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14uuk&281½

m̄ sdk~~z~~^zu ughayx~~k~~ ft l dkf ej u py t k xA i gysd us
ule d~~l~~^l dseu usi d~~M~~^Mg~~m~~^m ds lkt~~M~~^M ule dkvH~~k~~
eu usdj uk~~g~~^g b fy, cgq l a dgr~~H~~^H vt i kt k ti uA
i ~~N~~^N dgr~~g~~^g eu pykt k xA t c v~~k~~^k euds k~~k~~^k u~~p~~^p d~~k~~^k kcs
gq, d ule y~~k~~^k nlyk~~A~~^A i j dksy~~k~~^k t c eu pykt k x~~k~~^k v~~k~~^k dk
t k og~~a~~^a d t k xA b fy, H~~b~~^b i gssm~~D~~^D j i gysvt i kt k
dj k~~f~~^f q nlykt k dj k~~f~~^f q okhi <st lsv k dh[k~~h~~^h g~~d~~^d j k~~A~~^A
b fy, m̄ dkt k u N~~A~~^A k dH~~A~~^A g&

ng~~S~~^S foxphlvS

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ne~~kg~~^{kg} g~~s~~^s 1/2^{1/2} Qy~~k~~^k i ~~g~~^g et gc] l k~~s~~^s f~~v~~^v k~~t~~^t k~~h~~^h g~~s~~^s; g
l c ne~~s~~^s 1/2^{1/2} f~~c~~^c u~~k~~^k i j e~~o~~^o d~~s~~^s c ne~~kg~~^{kg}; fn v~~k~~^k ne~~ke~~^{ke}
, d c~~j~~^j Q x, f~~Q~~^Q v~~k~~^k [k~~k~~^k g~~s~~^s H~~b~~^b fo, k~~s~~^s g~~s~~^s t k xA f~~Q~~^Q
v~~k~~^k dkdl e ugh~~b~~^b g~~s~~^s A b fy, ne~~kd~~^{kd} l^u g~~s~~^s hukn~~A~~^A t c xq
nl osi k' k~~g~~^g 1/4^{1/2} h xq x~~k~~^k f~~g~~^g t H~~z~~^z usv~~l~~^l s dsfy, m̄
t Q~~u~~^u lesead~~F~~^F fd; k~~g~~^g m~~u~~^u d~~g~~^g & v~~o~~^o vPN~~K~~^K r~~u~~^u vi uh
delb~~z~~^z dkf~~y~~[k~~d~~^d d~~s~~^s j~~l~~^l* r~~k~~^k l~~s~~^s d~~h~~^h j~~k~~^k [k~~b~~^b r~~w~~^w k~~p~~^p. kdkj g~~k~~^k
vPN~~A~~^A v~~k~~^k . kdk~~F~~^F og vPN~~k~~^k l^u s~~A~~^A l c d~~M~~^M rjsk~~B~~^B i j
t c r~~w~~^w e~~s~~^s e~~ap~~^{ap} k x; k~~f~~^f xyr g~~s~~^s; kA t c r~~w~~^w g~~u~~^u
ebyeku l^u d~~h~~^h e~~ap~~^{ap} k x; k~~f~~^f r~~u~~^u g~~u~~^u & g~~u~~^u v~~M~~^M s~~k~~^k g~~u~~^u l^u
ebyeku l^u k~~s~~^s g~~u~~^u; g~~k~~^k s~~v~~^v k x; kA; fn r~~w~~^w e~~au~~^{au} t krk
rkscgq vPN~~k~~^k H~~y~~^y k~~F~~^F A i j e~~q~~^q s~~v~~^v c; g fpV~~B~~^B f~~y~~[k~~kg~~^{kg} l^u s
c~~j~~^j k~~M~~^M r~~u~~^u h~~g~~^g; se~~ss~~^{ss} k~~s~~^s sd g~~r~~^r q~~s~~^s k~~z~~^z d~~N~~^N ughadg~~s~~^s A r~~u~~^u

fj Dr vi usfy, A efsrjssik l s[ku& hukug] og xbj kgslj H[xx] x; kA og fQ x; k[ogktldj] Ja kff g dksdgr k[H[bbZH]kz xjpk dholaykA og yk k[dsn]A og eqsl o kff g crk kgs og dgr k&vkehl syrhgstu k[hg] og dgr k&xjpefkf ejl D k ck g[Seqst]hcr knA og dgr k&xgflk kdkls shckraugacr kA syrhgstu k[hg]bul ku l syrhgstu k[hg] efsmt svks gg dgk efsdg&easmt s[xyrhdsclj se] dgk x[kr]kessn[k]fQ bl s[ka] k[ff] g dksf[k] k[fQ] bl ush[k]ki j rwd ds k[fd] ka xbj kgslj H[xx]kt k[kg]i j og pykx; kA bl fy, fQ m[us]A ogki t[ak]mu fej kf ; kdkv[k] ogki t[ak] lpa egik kt dIA v[k]dgk lpa dki t[ak] v[k]dgkfej kf ; kdkA og J lpa dht xg mt[ak]mu fej kf ; kdki t[ak] yxkf[k] H[bbZ]ehdsfy, opu uk i kyufd; k, k[& k]A fQ og dgr kgs c pykx; kdqi j ogk fQ og vk k[g] dgr k&xyrhgstu k[hg]bul ku l [seqsi gysug]A Rki rA efsdg&vc rksyx x; k[yrk] dgr kgs[k]bul ku l syrh gstu k[hg] eqsugai rkyx k[eql sfy] kx; k[bl] fy, ; sck g[; stksyf[k]d g[ssg]A ok rksg[ssg]A budst k[l] k[dl] g[ss]og fy[k n[k] ft l dsblyle dsi Dds k[dl] g[ss]og blyle dsfy[k n[k] rlykdk[k[dl] dj n[k] ft l dsf[g[ss]og fga[kedsfy[k n[k]A t k[Ddkff [kgs] k[og rlykdk[k[dl] dj n[k]A og rksnudh c[kdkd]le g[k]b[k] dkdl g[k] g[k] xq x[k] k[fc] e[shckra ugak]A

vlt efsrjssik k[ogkj k[ff] k[usdgj hi f[dr] dsh[k] m[es] l ugh[k]A t c rd og xqdk k[hdgr]s[k]j l Vi dr k[k]A e[g[k]cBk n[k]r k[g[k]f[esdg& k[sys/c] b[k]g[k]s[shculb[k]s g[ck i j bl ea

j l ugakSdj &D k j l rkdl eNkyugat kl drkA j l rkstc
bZj h oklh gskj mleaj l gskA nljh eadgagst k xk
RkA Rcgj dgaugagkA ld fy, j l ugaksko &D k bZj ds
l Rk ugaS t c v k bZj dlsgft j &ukt j+ dj dsck dj k
v k ds kkh, skghdj skogA ld fy, HkZm i j esoj dsule
dkdHhukHw m d kkeu dkst k d j [ksulehrqsi zV gk
t k xk t c rd v k ogkugat ksrc rd dksZ k dknkkgmk
ugak drkA pfy, &

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t kshnsekayx\$mlgsf, k 1/2 Np 1/2 / k k [kj lc gq] mudh
ekugahpvc v k s ; gkvk kghugA D kugav/k k HbZ
vxj eSk; k l k s k; ea gh1/2k 1/2 st k xhA HbZ; srksA i j l s
, ksdgrkRk vaj l srks g oSsdgrkgA i j m dhelkHhuk
gkA; fn og n e i k' kg ds k pykt kkrksm dhelkseadkZ
'ld ugak k ogkrksnj hunf fugly RkA ogkrksk [ksusoky 1/2
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i k' kg 1/4 hxq gj xkca kgc 1/2 c t krsksk byekuksfny ea
dk v k Zdkf; HkZd kdykda og t kdkZ/dkj dgj l si Nstc
i N yxk xq dki N vkskskRk m dk 1/2 gk j dk k hns
gkskRkA og 1/4 [k 1/2 / dkj i Nrkmt i g skj dk \$ l Pps k' kg
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RkA og dkt khdgrk& g rksNkdsTt rhgksxbZgelj h rqsrk g
>dk k' kg dgrsaf [kA t kgej h ksh [kksq] c d k ge nssof
v k f q Hhl Ppk k' kg og g m usdg&piq dj k A osdkt k 1/2
dgr&gel srksugal gu gkskA dgr&D k dj k dgr&ge l qg

dj ~~AA~~ I aj hdksdg n~~S~~ t c ; g~~k~~dk~~S~~ ldj i ~~AA~~ vc ogh~~AA~~ ; lk k
 R~~K~~ t ksr uhrj~~s~~ l sri dj j gkR~~K~~ [ksy] d j lk~~h~~dekrk~~KA~~ m~~t~~
 fnu m~~t~~ us~~AA~~ ~~AA~~ k~~o~~z~~g~~ i Ssogh~~AA~~ d~~s~~ k] ogr k~~t~~ PpkHD
 R~~KA~~ t c og v~~k~~ k~~m~~ usi ~~AA~~ Ppsi kr' lk~~g~~dkravm~~t~~ 1/4aj h~~z~~us
 t g~~x~~j~~i~~ dsravdhrj Q g~~K~~l sb k~~j~~ kdj fn kA mu 1/4kt ; h~~z~~us
 dk~~KA~~ H~~z~~t k~~t~~ Ppsi kr' lk~~g~~dkravm~~t~~ g~~x~~j~~i~~ dkcrkuk~~A~~ og
 t g~~x~~j~~i~~ vaj c~~B~~k~~KA~~ og 1/4~~AA~~ ; lk k~~z~~x; k~~m~~ usi Ssj [kdj plj
 i f Øek ; d~~h~~ m~~u~~ fd; k~~[K]~~ g~~s~~; kA og 1/4g~~x~~j~~i~~ 1/4gr k~~D~~ k
 ekrkg~~S~~ l kkeahc~~AA~~ og dgr k~~e~~ k~~AA~~ m~~t~~ ust c n~~AA~~ H~~z~~
 crkv~~AA~~ vc] vki rksj kr dks c dgrs~~AA~~ vc crkv~~AA~~ og 1/4kt h~~z~~
 dgr k~~&~~ d xl~~p~~ ysy~~AA~~ vki k~~m~~ usd~~g~~ & byldsakfut le cuhnss
 g~~AA~~ v~~AA~~ D kyskg~~S~~ og dgr k~~e~~ q~~s~~ k~~h~~ k~~u~~ k~~l~~ k~~d~~ ht : j r ug~~AA~~
 e~~AA~~ k~~l~~ k~~u~~ k~~l~~ k~~d~~ k~~h~~ g~~s~~ og rks PpkHD R~~K~~ g~~t~~ h~~o~~ og 1/4g~~x~~j~~i~~ 1/2
 dgr k~~H~~ H~~z~~og g~~S~~ Ppsi kr' lk~~g~~dkrav~~AA~~ knsokyk~~H~~ hogh~~AA~~
 b~~AA~~ k~~l~~ k~~u~~ k~~l~~ k~~d~~ k~~h~~ xyr dj fn kA m~~t~~ usi Ssm~~B~~ pykx; k~~d~~ k~~z~~ d~~c~~ ug~~AA~~
 dg~~A~~ og i ~~AA~~ m~~t~~ dst g~~x~~j~~i~~ H~~h~~py i ~~AA~~ t g~~x~~j~~i~~ H~~h~~tkc~~AA~~
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 x; kA D k~~a~~ dgrs~~AA~~ Bsi kr' lk~~g~~1/2 f [k~~D~~ k~~e~~krkg~~S~~ dgr k~~t~~ h
 el~~AA~~ osdgr~~g~~ k~~h~~ hv~~K~~l sv~~k~~, d dj ys~~AA~~ k~~y~~ky~~AA~~ m~~t~~ usdj
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ukud urj hunj fugky~~AA~~

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og dgr k~~fugky!~~ fugky!! fugky!!! py g~~s~~; kA vc ogkrksunj h
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 ; g d sh~~g~~ g~~AA~~ k~~h~~ k~~o~~ rkg~~S~~ m~~t~~ srksdk~~S~~ le' kku crkn~~S~~ ogk
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erychvnehg~~A~~ bZoj dkl; ljkug~~A~~ bZoj dkl; ljk~~A~~ bZoj fcuk
fdl hdkusgh~~A~~ euk~~A~~ agrkl~~A~~ ljk~~A~~ s~~A~~ ljk~~A~~ d g~~A~~ grkplj. J~~A~~ sk~~A~~ keag~~A~~
dks~~A~~ d t xg m~~A~~ dk~~A~~ ljk~~A~~ rksdga~~A~~ g~~A~~ g~~A~~ jssan eav~~A~~ skgs~~A~~ c ds
an keav~~A~~ ljk~~A~~ bl fy, H~~A~~ Zunj hunf fugly g~~A~~ stkrkg~~A~~ i j m~~A~~
1/15 s~~A~~ dks~~A~~ g ; dlu uga~~A~~ v~~A~~ k H~~A~~ Zt lscj kM~~A~~ g~~A~~ eqsv~~A~~ krj ds
I~~A~~ k~~A~~ yst k xA fQ~~A~~ xq I~~A~~ k~~A~~ gc eqsmi si kn~~A~~ seaq~~A~~ P~~A~~ k~~A~~ Zcrk x~~A~~
ejshabTt r~~A~~ h~~A~~ g~~A~~ s~~A~~ a~~A~~ g~~A~~ v~~A~~ l~~A~~ skdn ej r~~A~~ soD~~A~~ dgrk~~A~~ y~~A~~ l~~A~~ H~~A~~ ; g H~~A~~
, d xyrhgsxb~~A~~ bl fy, tc ; g ej rkg~~A~~ src bl si rkyxrkg~~A~~
I~~A~~ ljk~~A~~ hmezgqkrksd~~A~~ H~~A~~ hugh~~A~~ xyr ghgq~~A~~

e~~A~~ k cBk~~A~~ ge i <~~A~~ f~~A~~ seg~~A~~ kt ki fV~~A~~ kykv~~A~~ lA m~~A~~ usi &M~~A~~
j le f~~A~~ g t hds~~A~~ leuseLrd >d~~A~~ k~~A~~ cBx; k~~A~~ ogl ljk~~A~~ Qy&Qy 1/15
fd; ~~A~~ og 1/15 k~~A~~ dgrk~~A~~ eqst hni nskdj l~~A~~ v~~A~~ k eg~~A~~ q"kg~~A~~ os
dgr~~A~~ &dkys~~A~~ 1/15 dsl l~~A~~ k~~A~~ rksru~~A~~ fcxk~~A~~ v~~A~~ g~~A~~ og dgrk~~A~~ g~~A~~ t~~A~~
fcxk~~A~~ v~~A~~ g~~A~~ dgr~~A~~ & Qs 1/15 dsl l~~A~~ k~~A~~ plj y~~A~~ min nskD kdj arq~~A~~
tc r~~A~~ v~~A~~ l~~A~~ dsl l~~A~~ k~~A~~ fcxk~~A~~ v~~A~~ g~~A~~ l~~A~~ k~~A~~ v~~A~~ c l~~A~~ Qs dsl l~~A~~ k~~A~~ plj y~~A~~ vc
bl j krsi M~~A~~ t k~~A~~ ule dsj krsi M~~A~~ t k~~A~~ >Bukd~~A~~ g~~A~~ r~~A~~ j krs
py i M~~A~~ t k~~A~~ q dkcrk~~A~~ kg~~A~~ k~~A~~ rkg~~A~~ ule dsl l~~A~~ keu dks~~A~~ l~~A~~ k~~A~~
y~~A~~ d ! brukdg~~A~~ j pysx, A fQ~~A~~ og cBk~~A~~ g~~A~~ ckph~~A~~ g~~A~~
bl fy, tc rd i j esq~~A~~ dsule dsl l~~A~~ keu uga~~A~~ l~~A~~ k~~A~~ i j esq~~A~~
bl si l~~A~~ r uga~~A~~ l~~A~~ k~~A~~ bl dhe~~A~~ k~~A~~ g~~A~~ l~~A~~ k~~A~~ rks g~~A~~ l~~A~~ k~~A~~
py H~~A~~ Zvc dks~~A~~&

ng~~A~~ l~~A~~ b foxphv~~A~~S

n~~A~~ skds l~~A~~ k~~A~~ H~~A~~ Zt l~~A~~ c d~~A~~ l~~A~~ n~~A~~ skjphg~~A~~ l~~A~~ shg~~A~~ v~~A~~ l~~A~~ n~~A~~ sk~~A~~ g~~A~~ l~~A~~ b
n~~A~~ skusghr l~~A~~ s~~A~~ qn~~A~~ l~~A~~ s~~A~~ l~~A~~ kef~~A~~ j~~A~~ cuk l~~A~~ m~~A~~ n~~A~~ skusghcuk l~~A~~
v~~A~~ l~~A~~ fdl usuk~~A~~ l~~A~~ l~~A~~ l~~A~~ j~~A~~ s~~A~~ l~~A~~ l~~A~~ n~~A~~ skdj~~A~~ rhg~~A~~ v~~A~~ l~~A~~ D~~A~~ kdle dj r~~A~~ hg~~A~~

vxj neskukglskrksQ xqnskj kghdlohrk 1/4 1/2 g; g nesk
g d nesk eadHhfdl hdkHkykugaqjA g st l d nesk eak; krw
[jk lc gskAp y Hk] &

xfy i bZq e dhQk AA

dgrst h ; g [jk lc D k dgrst e dhQk hrjsxysei Mh]
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1/4ldakM k xk vls dlbz ykt ugdapfy, &
t skcht \$ ksyqS

t Sket Skrvolsxk oghdkvskA t ksvukt cksgp vukt dkrs
gft kst kcksgp fost kdkvrsqA t kpusckskqfog pusdkvrgqA
t SkrvdeZdj skl I dle deZdj] plgsrvwdle I skdj] oShgh
plh rqsit kq; g; g, d bZq h U k gsvls; gvk i Ddkdj
y k A t krusdeZdj; k rHhl e> ystHbzogVki rkspdqkqAvc
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; ek skrls k k

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 uḡs̄eu v̄k̄dk̄ k̄s̄ epkr̄kḡfoḡc̄sk̄frkugj̄gr̄k̄ dn̄ea
 crkn̄sk̄ḡfH̄zeu v̄kt c̄M̄j̄ t̄s̄ckeav̄k̄k̄ v̄kt f̄k̄s̄t̄l̄ Ùs̄ckeas
 v̄k̄k̄a og H̄hr̄kogac̄sk̄ḡoḡl̄k̄ht̄kp̄ uḡd̄j̄r̄kc̄B̄dj̄\ oḡ
 rk̄s̄j̄es̄oj̄ ḡfoḡhv̄Rekḡs̄/f̄s̄d̄k̄ḡs̄b̄fy, H̄k̄Z̄; fn̄v̄k̄ m̄
 īj̄es̄oj̄ d̄sḡst̄kv̄ls̄m̄ d̄sn̄k̄ cut̄kv̄ls̄l̄k̄d̄le cut̄k̄ &
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 oḡejs̄kv̄k̄ḡk̄īn̄z̄d̄ a d̄s̄ āj̄ḡx; k̄A xq̄ j̄len̄k̄ l̄a d̄s̄
 l̄k̄kejs̄kv̄k̄ḡk̄j̄ḡx; k̄A eq̄sc̄[̄l̄k̄xq̄ j̄len̄k̄ ūvc̄ ejs̄k̄oḡ
 l̄k̄h̄n̄f̄ k̄dk̄t̄k̄sejs̄kīk̄ f̄k̄d̄N̄f̄k̄l̄c̄t̄k̄f̄k̄aḡl̄c̄pykx; k̄A
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Klu~~h~~ og dgrs lQg~~s~~xb~~A~~ og rk~~l~~ slyh~~1~~j rhR~~1~~hH~~1~~sh~~1~~lp~~1~~d~~h~~
mxr huga~~1~~A og , lshmxusyx xb~~1~~m~~l~~ p~~g~~s~~1~~lp~~1~~t S~~s~~ls ugja
fdl hdsmxra~~1~~ld fy, c['k~~k~~g~~s~~xb~~1~~og xq l k~~f~~gc dhc['k~~k~~ka~~1~~A
; gxq dk k~~o~~R~~1~~; sd dk~~b~~frgk i rkgs

dk~~s~~ frukedj hokgxq!

l hry l k~~f~~ egkl ~~dk~~k~~o~~ kl al f~~x~~ j fgvksv k~~s~~gkAA
gj / kudl paufj uled~~H~~ udp~~g~~ukud dhukspk~~s~~gkAA



I v^lk^j I frx^j i t^zkⁿAA

6

I y^lk^j

fxvku v^luox^j nvkvfxvku v^lis fcuk^l AA
gf^j fdj i kr^l a H^l v^lkⁿukud efu i j x^l AA qAA

1¹/₄uk&293¹/₂

I k^lh^l ar d^l k^l n^l esj dj dsd^lsl fruleq^j h^lfgxq!
I fruleq^j h^lfgxq!!

r^lacaff e^llk^lu f^lkr^lwkud efu H^lk^lAA
?k^ly ?ek^lzr^l fe^lkfopk^l st Sefy daq^lNk^lAA

1¹/₄uk&964¹/₂

i j esq^j i f^l i v^l&

v^lk^ll p^l q^lk^ll p^lAA g^lh^ll p^lkud g^lsh^lh^ll p^lAA

1¹/₄uk&11¹/₂

og i f^l i v^l j esq^j , d , dalk^l g^lnf^l kdsfr usx^lg^lsmues
uledkexy g^l j xq x^lkl kgc aulehdke^l y g^l i gys dk^l1¹/₂
fy[lkfQ^l v^lsal^l] fQ^l &

I fruleq^j r ki j[l kfuj H^lmuj o^l

vdky ejfr vt vhl Blaq^l i t^zkⁿAA

1¹/₄uk&11¹/₂

; glbzj h^l dkkfy[lk&

, de , dalk# fuj ky kAA ve# vt ksh t kfr u t ky kAA
 vx e vxk sj : i aij f k kAA
 [k ksr [k ksr ?fV ?fV n f k kAA 1/4uk&881/2
 og , dkplj J f k kdsan keag&
 ?V ?V eSfj t v d au dfgv k d kf AA
 dgakud frg Ht oekHlmfuf/kmr j fg i kf AA 1/4uk&1421/2
 ; fn rvd lkj l si lk gsko f rkl c es d 1/2zj 1/2sn k i k
 yA , d dkn k HkZj k SkdksgakA mudkvkt ↑ skl skt i f
 pyrkgs vMk' kgt Hhdgrsg↑ skl skt Hhdgrsg i j os
 egRekcgq vPNsg↑ ?j dkdle mtkscgq fd; kgA b fy,
 tc rd vldks uska d dsn k ugaq s ds/d 1/2src rd
 vldkeu l IQ ugaqsl drk fuk ugaqsl drkA , d gshgs
 culovhckj culbzgj og fQtwgshgA , d gshg 1/2zj h
 dklA bZj h oklhej Ukhk Hh>BugaksA og fcYdg nfj k
 dks i lk dj usdkh gshg mi fu'kn mrj k 1/2zj f k kdl
 egEen dksbygle gqk bZkdksgak ; g 1/4hxq xk kfc 1/2oklh
 l lk hZj h g b d eadlkZ kd ugaqj b dks c v k i <kstc
 b dsl k kpyk s Oknkr c gsk i gysugakA b fy, vldks
 an es lk; aks, sholr gsk l k s lkj dkdaz vldsan
 es d l R dkgm sv Rekdg s mti s k khdgrsg mti skuk
 chuk kZj dgrsg mti snZkdg s mti s k khdgrsg og g
 ij ekRekdkule] , dka og , d dkule gSvle*] ; g eak c l s
 i gysmj k kA m dskn l R rk

I R e Kku euae cje 1/4sfj h mi fu'kn 1/2

I R rksy{kkgSj esqj dka ; g rksa i y{kkgS rMf
 y{kkguqj gl R La i y{kkgS

I fr l : i qj nst fu ekfuv kAA
 dj u dj kou fr fu eyqj Nkfuvk 1/4 W & 285 1/2
 b l R dkft l useuu dj fy; kA b l R dkft l us k^{kkrlj}
 dj fy; k^m seyi j esqj] l j h f^V dhm^R f^u i kyu^k y; d^{uk}
 dki k[{]kg^s; kA og b dsan ega, d elshdr g^S; g^{kl} seish
 ofR py^h an l svldj ; g^k 1/2 holr^q j 1/2 xl xbA esdg[&] s
 olro^A ij ; g^V k^l arls d > j k^l 1/2 xl; k^{gav} s eu t M^A
 ofR t M^S l s^h usokyk^H hr kdlk^v aj g^{SB} t keu cqf^k
 dsi h^N scBk g^S v^u b La i *A og b dkv^k kg^S i v^k ; g^k
 1/2 l^u 1/2 sol l gst kv^l s^d s^N s^h v^k k^l k^l s^N s^h eu d^l s^N s^A
 n^l s^o f^k d^l s^N s^h A og t k^o f^k d^h fⁱ Nyhrj Q v^u b vi uk
 v^k c^B g^S o^r k^l dkvi ukv^k g^S o^{gl} R g^S o^{gh} K^l g^S o^{gh}
 v^k u^g o^{gh} Q^l d g^A; s^l s^f k^l k^g ; g^g s^l R La i A og
 I R t k^o f^g l d^l dkv^k kg^S m^t s^l Rekdgr^g
 dbZdk^l / i k^l kdm[[] k^l s^A AA
 v^k re efg i k^l czegyga^A 1/4 W & 276 1/2
 dbZdj k^l k^l k^l k^l k^l k^l usyx^j i v^k Rekes si j elRek
 fey k^l v^k Rekv^l sⁱ j elRek k^l k^l s^h v^k d g^S; grksu^g
 og czek^l v^k fⁱ b^{1/4} j^{1/2} n^l k^l kysj g^S; grksm^l k^l kg[&]
 ukdN^o y k^l o^{ck} u^{ck} dN^o k^l k^l k^l le dhngk^Z AA 1/4 W & 695 1/2
 i h^l ki zlo^l j e rr^g s fr x# g^l y [k^l s^A 1/4 W & 695 1/2
 ; grks fr x# n^l k^l ghv^u b^g k^l A fr x# fdl hvknehd^k kule
 u^g fdl h^o skdkule u^g fdl het gc dkule u^g j^{1/2} dkule
 u^g
 I fr i q^l k^l ft fu t kfuvk l fr x# fr l dkukmAA 1/4 W & 286 1/2
 ft l usvdly i q^l k^l s^h vi usvaj l k^l k^l dj fy; k^m sl a

dgr s^gm^t skq dgr s^gm^t spkgs j esqj dg&
x# i j esq#, dkst k kA
t ksrl d kks^t ks j ok kA $\frac{1}{4}$ llk&864½
og xq i j esqj dHhnsugaggA ; fn i j esqj nsgkssrksq
vls i j esqj nsgksA Klu, d g&
fxvku vluqkj rhkvfxvku vls fcukl AA
gfj fdj i krsl a Hs^t kuku efu i j xk AA $\frac{1}{4}$ llk&293½
og Klu dkvtu $\frac{1}{4}$ jek@dkt y $\frac{1}{2}$ c i pe i k' kg dsi k' vk
x; kxq t k^t vj t qekfg k j hA tc xq j lenk usT; k^t vi uh
j [knhxq vt Znsesqg Klu muds k' vlx; k [kg x; k' vlx dks
e d dk crkkgj m^t hughKlu g^t A m^t uskcgq fy[kg^t
' kaj kpk Zuscgq vPNk fy[kg^t, d g& vi j k^t KluA , d
g& R{kKlu}, d g& i j k^t KluA i j k^t Klu vugku l sf nkgksk
g& i R{kKlu ; g $\frac{1}{4}$ leus¹² ge ; gk spyst k j og i j k^t gks
tk xkA i j vlx dkt lsvi ukvli kg^t g^s grksdHhi j k^t; ki R{kugja
gksA agrksvki l svx g^s rks&
; fr l k^t k^t vlx j k^t k^t l^t cge $\frac{1}{4}$ gnt. ; d mifu'ln½
; g mifu'ln eavrkgs t k^t k^t Klu g^s og Qk d g^s og
vlx dkvi ukvli g^s m^t Klul svk l k^t hnf^t kdkn^t rks&
ughn^t qn^t fai j y k^t k^t son~rs/fouk khrdk
 $\frac{1}{4}$ gnt. ; d mifu'ln½
n^t k dhnr^t V dHhykls ugagb^t D k^t vfaulkhg^s vlx ; g
crkvls vlx dkt l^t psu] vlx k^t vlx k^t g^s g dHhi j k^t g^s g^s
i R{kqgkgs} i R{krlsc gksvxj t M^t k^t} l leust M^t k^t k^t
fn[kg^s t kusokykt k^t k^t g^s i M^t g^s g^s g^s d dkvli kg^s g^s
d usvjk dkspyukgs^t Rekdhvl^t $\frac{1}{2}$ kb/j dkspyukgs^t bjk

dhrj Q Oogj eashfxj krks gij ekfz sfj x; lA ; fn Oogj
 ' kqkgss; krkdd dki j ekfz lsi gysgh' kqkgS, d l a eqs/g
 ckr ½dgr sflscgq T; krkA og dgr & j ekfz rks gysgh' kqkgS
 psu] Oogj ' kqkdj ukgs Oogj nks 1½a ½xpedkf ej th
 dgrs & vki Oogj nks kqkgS HbZvki >Bvksugadjr\$
 cbzkuhrksugadj rs kdkZvks ckr rksugadj rA vxj dj rsgs
 rksckær dj lA b fy, i j l kavnehj og ckadj rskA og , d
 ¼kneh½ck dj s&fghbtku dhcbzkuhcMgA og dgrk&; g
 ugat kl drheas ljhmezdkt qZvutb½dj fy; lA og l kjs
 cBtA osdgr &D lA ; grk\$ dgrk [kweafey xbA [kufudkyks
 rks/knehej t k xA fgaqku ds[kweadcbzkuhgksbZed A vc
 vki l k 1½a ½udky nks vki fruh nj l k 1½a ½ugja
 udlyr\$mruhnjs og dlsbscbzkuhpyht k xhlbX og feyhgby
 pli ugat k kdj rA mli uscNl bjj ckr dgj og Rkr l st V
 ½ekl ½A mli dhckracMivPNhRkA ; g gshg g uh ½kou]
 plky&pyu½A b fy, Klu ugacrk vki dkt lsoR Klu g\$og
 rksdbZi dlj dkgs, d [; ky vki xk nlyk pyk t k xk rthj k
 vki xkpkS kpykt k xk i j tksur nfv g\$st l k hofR; kdl\$
 l k s; ky kdkvutb dj rkgsog psu g\$og nVkg&

elbZ jfr cknaygalk#AA

vksqewukt knfsk lgk#AA

1½uk&152½

n\$krksu g\$eu r l st M\$Scqkt M\$pv l st M\$pd l u t M
 gA bu ½ekl ½ekl rs g Hhugai r k dku mzkskgs HbZmzgs
 j gkgAvog rksdbZvks g\$st l k l k psuA og fu py nk us
 , d t xg fu k fd; kg&

, d l eashHku gks l k khvj vki l A

nthksu dksf^{'k} i k^{kh}lo; a^zk AA^{1/2}plj i kj 4@116^{1/2}
 og dgr koff v^ls of^r v^lkk rkpsu dso^{'k} gsj i zkkgs^k
 g[&]; grks j rki zkkgs^klo; a^zkkkrksjkv^k kl k^{kg}&
 i k^{kh}ge lo; i bd ugh^l dks^kA
 j^l k^x ne^lkefr ds^le^z ke^lekur v^lAA^{1/2}plj i kj 2@12^{1/2}
 ; grks^l fks^lds^le^zog t^lks^l fkd^lle^zok^l k^h psu ea
 elurkgsog vut lu g^lv klu g^l m^l sv i us^l i dhfcydg^l K^l
 1^{1/4}e>1^{1/2}ug^l n^lsp^l t^lks^l dsvaj^l k^lht^l k^hg^l, d^l K^l , d^l
 K^lk^l A^l K^l rkpsu eau^l og r^l k^llu lo; i g^l d^l dkvi k^hg^l ej^l
 vi ukvl^l ugh^l rjskvi ukvl^l ugh^l l c dkvi ukvl^l g^l vc
 crkv^l t^l c v^l dks^l n^lks^l d^l H^l d^l H^l 1^{1/4}kn^l 1^{1/2}ug^l k^hf^l
 v^l v^l k^lca dj d^l dkx^lsl^l n^lks^l g^l l c oghd^l r^l g^l og
 psug^l
 t^lks^l g^l k^lg^l lks^l g^l k^hg^l AA
 t^lku. k^lg^l s^lmcfy t^lkn^lAA 1^{1/4}uk⁸⁸⁵1^{1/2}
 xq i k^lgc dgr^l t^lks^l kuseav^l k^hg^log b^loj^l ugh^l og r^lsef^l
 m^l k^l u^l g^l t^lku. k^lg^l s^lmcfy t^lkn^l dks^l k^lus^lkyhol^l d^lhr^l
 g^l ogl c dsvaj^l g^l
 t^lkuug^l i t^lki^l ch^lAA
 clgf^l H^lks^l d^lg^l H^lAA 1^{1/4}uk⁸²⁶1^{1/2}
 t^lkuus^lkyki t^lks^l g^l clj^l h^lsk^l sug^l i t^lrk^{1/4} ky^lks^lAA
 og v^ldkvi ukvl^l g^l d^lks^l l d^l ugh^l
 ft uhv k^lreaphuvki j ekred^l k^lAA
 , dks^l fez^l fcj [k^lg^l Q^l y^l q^l fez^l g^l k^lAA 1^{1/4}uk⁸⁴²1^{1/2}
 og vej^l g^lst^l k^lxl^l og v^ldkv k^lek^l j ek^lek^lQ^l d^l] i k^h
 nthkog^l, d^lgh^lks^lks^l g^l og^l, d^lkg^l l c dsvaj^l , d^lA og

v̄k̄dkv̄k̄kgs̄j̄ v̄k̄ ; ḡk̄[kv̄]d̄ḡa gr̄v̄k̄ k̄skv̄uñ̄veam̄ us
 cññ̄fuññ̄ fd; kḡs̄/d̄l̄j̄ l̄pk̄ z̄s̄A og v̄f̄z̄ghn̄t̄ usfd; kḡs̄ og
 dḡs̄vi uk̄v̄k̄ vi j̄ k̄kḡs̄cl̄dt̄ k̄s̄R̄{kḡs̄; ḡx̄yr̄ ḡs̄ i j̄ k̄skH̄h̄
 x̄yr̄ ḡs̄; gl̄ k̄k̄x̄yr̄ ḡs̄v̄k̄ ; ḡr̄ks̄/ld̄j̄ B̄j̄ r̄s̄uḡ
 , d̄ fp̄ùk̄ft̄ ḡbd̄ f̄Nuññ̄ f̄kv̄kv̄k̄AA
 d̄kȳ Ok̄ d̄sc̄h̄ u v̄kv̄k̄AA 1/4 e x̄H̄2
 , d̄ {k̄kek̄kH̄h̄ el̄/kyx̄ xb̄z̄j̄ v̄k̄dk̄s̄k̄z̄gyk̄ḡa dr̄k̄A
 j̄ ker̄H̄z̄fooskua] i f̄m̄ b̄z̄j̄ f̄ ḡeḡj̄kt̄ t̄k̄s̄ ḡȳsḡq̄ ḡb̄uññ̄c̄
 d̄ks̄ȳ{; ḡḡk̄&
 gm̄eññ̄ph̄l̄ t̄. k̄k̄l̄ t̄. k̄s̄k̄f̄ȳAA
 ukud̄ vȳ[k̄uññ̄ȳ[kv̄S̄j̄eññ̄kn̄b̄fn̄[k̄f̄ȳAA 1/4uññ̄&1383/2
 H̄b̄z̄dk̄s̄z̄q̄eññ̄k̄ḡs̄j̄ fn̄[k̄x̄k̄ r̄k̄f̄uññ̄ p̄; ḡs̄k̄ l̄k̄b̄z̄j̄ h̄
 di k̄H̄hḡs̄A x̄q̄eññ̄f̄eȳz̄k̄ghrc̄ t̄c̄ b̄z̄j̄ h̄ di kḡs̄h̄ ; ḡr̄ks̄
 i D̄dh̄dr̄ v̄k̄ t̄k̄s̄A ; ḡf̄eȳz̄k̄ghvi usv̄k̄] t̄c̄ v̄k̄d̄heññ̄ B̄d̄
 ḡs̄A i j̄ esq̄ t̄+j̄ n̄ k̄uññ̄nsk̄ḡs̄pl̄ḡs̄l̄q̄v̄k̄ : i Aññ̄. ld̄j̄ v̄k̄
 ; k̄fd̄l̄ heññ̄q̄"k̄d̄k̄s̄H̄s̄A i j̄ v̄k̄d̄heññ̄ l̄gh̄ḡsh̄pk̄ḡ A
 b̄fȳ, &
 fxv̄ku v̄ðuññ̄q̄f̄j̄ nh̄v̄k̄
 x̄q̄ usgeññ̄k̄lu: i hv̄ðuññ̄ 1/4j̄ek̄v̄f̄n̄ k̄x̄q̄ j̄ lenk̄ uññ̄&
 v̄fxv̄ku v̄ðuññ̄fcuññ̄ AA
 v̄k̄l̄dkv̄k̄z̄s̄k̄ c̄l̄ eññ̄k̄ ḡs̄; k̄&
 ḡf̄ fd̄j̄ i kr̄s̄ a H̄s̄v̄kukud̄ ef̄u i z̄k̄ AA
 ḡf̄ dh̄dl̄ k̄s̄ a x̄q̄ j̄ lenk̄ dk̄feȳk̄ ḡḡk̄v̄l̄Seueññ̄k̄uññ̄dk̄
 i ññ̄kk̄ḡs̄; k̄AT̄; k̄s̄ r̄k̄s̄ ḡȳsḡH̄k̄&
 l̄ H̄keññ̄ḡt̄ k̄s̄ t̄k̄s̄ ḡs̄ k̄s̄AA
 fr̄l̄ n̄ññ̄k̄uññ̄. k̄l̄ H̄keññ̄ḡp̄k̄uññ̄. k̄ḡs̄AA

xjI k[kht kf i j xVgkAA 1/4 u&13½
 og T; kf rks c dsrj gsj xq dhdi kdsfuki dV ugA
 gskA bzj vls xq dhdi kl sgh; gdle csk xq l a pkf A
 cge Kluhgl a gskgs; gfu'i {kck gbl esdl her dki nkz
1/4 u@njt1/2ugA
 cge fxvkuhdm[ksf eglsjAA
 ukud cge fxvkuhvkf i j elsj AA
 cge fxvkuhl Hkflk fV dkdj r kAA
 cge fxvkuhl nt hSugej r kAA
 cge fxvkuhdkl xy vdk#AA
 cge fxvkuhvkf fuj alk#AA 1/4 u&273½
 Klu rk d ghgA t ksvk dkKlu gS ljsân kesoghgsi j vki
 vi usKlu dkt xkykst lxrhT; kf rksj ntl dkHkdk 1/4 u&1/2 M
 x; kA t Sst kxv eavldj vki l c dksj spyrsgsog psu l c
 vaj l scrkkgsA t c dksj xyr fudyrkgsgsog rHhvaj l s
 crkkgshz; g xyr dg x; kA t c l i useat krkgsgsokpaek
 l jw ckj hT; kf dksZgA ntl txg vki dsl i uk vkrk gA
 xdkj fy[ksgsokdksokdkfo"k cu t krkgS 1/4 u&1/2 R
 t khsj d kld rks lkhv kdkvi ukvki ghgsj rksdksZgS
 ughA Klu rk d gsdksZgA Klu rk gsgsA Klu rk d ghgA
 t c vki xj hum est krsgsokvki dhcqfkl kZgkZgshgA eu
 l ksgsokgshgA kZgkZgshgA vki [kq vldj crksgsoksgj h
 uha vki &
 l ; nkr\$ l kHkdkkstlor; kksns%
 loluku i'; r; [krnsl fed 'kj, rr l dkHlofr AA
1/4 z uksfu"neak&6½

e&N&I [kl] s [ks] e&s i rku yxkA vc m̄ sñksokykojk, Rk
dk, t kusokyk, A ogkrkskuk&chukT; k̄s La i psu gh, Rk
vk crkvls ogkbzj h Klu dscukl ogukrksdks, z, f, n, k, klu
Rk ukvli dseu dkKlu Rk u cnpdkdkKlu Rk; grks l̄s ls gg
Rk m̄ I d̄f dkKlu fd usvut fd; k̄s vki vldj dgrsgsog
1/4ku 1/2asfd; ki j vki dks g ugai rk e&Klu g& Klu dks g&
i j vki dksugairk e&Klu g& vki us[ks]q vut fd; kA m̄i dkule
bzj h Klu g& ogkrksT; k̄s RkA, d T; k̄s dscukvl, S rksdks
ug, Rk og gbszj h KluA og gS; k̄s] og T; k̄s Okid gfsog
vki dkvi ukvli A og Bsj ukeqdy g&; gk 1/2gj usdsfy, 1/2
bzj dhdi kdht :+j r i Nthgs xq dhdi kdht :+j r i Nthgs
vks l̄s hi fyd e&d dhl skdhcafkgks l̄s l̄s dkdlc pycvc
gej, hl skcafkrksu g, vHdklksu dk, z, aV dpo es, kMgS
t kkg& oskdk Qykdj et gc dk; geblor 10kyrvolle 1/2ugia
rksv, S D kgs t c ?V&V easgf d rkgsrlsfQ l̄s l̄s ead k
eryc\ t c l̄s l̄s le d rkgs l̄s l̄s d ; ghg&

, de , dalk# fuj kykAA ve# vt ksht kfr ut kykAA

vxe vxks#: i qij s k kAA

[k̄s r [k̄s r ?V ?V n s k kAA 1/4u&833/2

i gys k' kg 1/4hxq ukud ns thdkopu g& dgrsgeus c
eabzj n, kA og t lsvl dk bzj gfsog l c dk bzj ugai
Hkdu d". kthtc xlirkdkrjsok 13 1/2 /, k mPplj. kdj us
yx&mtuas IQfy[kg&

{kKapki ekafonfkl oZ, k, k, rA x, k, /, k 13@2 1/2

gs/t, e&ks gavks dgrsd". kus/gallj fd; kgfylksdks
; gugairk; gkrksOkid dksdgrkg&

{~~K~~Kapki ekfonfkl o~~K~~~~K~~l~~K~~ rA~~X~~kv / k 13@2½
 t ksejk {~~K~~&psu] {~~K~~&Ql d Klu gS; g pljkaj sk ka
~~X~~ t jst] l st] m~~H~~q½ea d gA vuslea d n~~H~~uk; g
 xqefr gSvls, d eav usl n~~H~~uk; g na~~H~~ gAvls bl dkv~~H~~D k
 gS; g [~~K~~hcaqfkgS t kl c ea d n~~H~~ky~~H~~ og i v~~H~~egk q"kgS
 H~~H~~A og H~~H~~Z~~H~~skghgS; g xqckhcn~~H~~l~~H~~ gS l c y~~H~~ksdks
 l e> ugav~~H~~A vc v~~H~~; g crkv~~H~~sog t k~~H~~ kp& k l k~~H~~ky~~H~~j
 x; k~~H~~ ft l us i uxj ½~~H~~l~~H~~l~~H~~ k k~~H~~ m~~H~~ ust ksdle fd; k~~H~~
 v~~H~~ usdfrgk eai <kg~~H~~A og dgrk~~H~~cgq T; k~~H~~ H~~H~~es~~H~~ ss
 d: x~~H~~ e~~H~~ j y~~H~~ v~~H~~Åx~~H~~A og, l~~H~~kt fehg~~H~~ m~~H~~ dhct q~~H~~ H~~H~~
 t [ehg~~H~~x~~H~~A og D kdgrkgS og dgrk& k~~H~~l~~H~~ k~~H~~l~~H~~ og rksi zk
 dj dsx; k~~H~~KA H~~H~~Z~~H~~skH~~H~~kdj v~~H~~ kA og dgrk&eishact q~~H~~ rks
 ugjam~~H~~l~~H~~A m~~H~~ us d g~~H~~ky~~H~~k km~~H~~ dseg dl~~H~~, d yxk ke' ld
 ½ku~~H~~H~~H~~ usdhpem~~H~~l~~H~~l~~H~~ v~~H~~ls~~H~~ i ku~~H~~f y~~H~~ k~~H~~ og dgrk&v~~H~~a
 g~~H~~s; kA og dgrk& k~~H~~ og dgrkff [krjskH~~H~~kg~~H~~A bl fy, ; s
 cofk t c rd ugav~~H~~x~~H~~rc rd Klu d~~H~~sv~~H~~x~~H~~ fQ rksge
 R~~H~~l~~H~~ kKlu n~~H~~sa f [k~~H~~dkKlu geav/PNkyxxkvls ebyekula
 dkKlu c~~H~~ky~~H~~ t k x~~H~~; g rksdle ghl j~~H~~ kxyr g~~H~~st k x~~H~~A fQ
 bZ~~H~~l~~H~~ kdkKlu gelj sdle ugav~~H~~x~~H~~A; g xyr g~~H~~leA v~~H~~ t c
 rd i f~~H~~yd es~~H~~l~~H~~ cofkugadj r~~H~~sl j~~H~~ hi f~~H~~yd dhl skugadj r~~H~~\$
 plgs~~H~~g~~H~~plgs~~H~~v~~H~~ g~~H~~src rd l p~~H~~ kdl~~H~~l~~H~~ u~~H~~ft axhrksfrku~~H~~gS
 l c u~~H~~l cdhx~~H~~q~~H~~ t ku~~H~~gsp~~H~~ksdjh l k~~H~~l~~H~~ksdjh cnekk~~H~~dhH~~H~~
 x~~H~~q~~H~~uhgS; gvl~~H~~sck g~~H~~j ; sck l cl s d g~~H~~is d~~H~~ k~~H~~kt k~~H~~ule
 dkt k g~~H~~sgl j~~H~~ sdle i j~~H~~sdj nskgS

dsks fruleqj hafq~~H~~xq!



I vklj I frxq i lkfnAA

7

I ghl ykl e%AA
I gcrkl lkx. kht kefu ygl pdknAA
I frxq vi . lk eulb yS: i qpmrk vxvk ntk ulgh
RknAA
, lskl hxl#c. lkbrw Skdns gkzb
vfgfufi ykxShkmAA
ukud I lkxf. kdkfdv kfpguqSafj
I poekl yk[k eSekf gI elbAA 9AA
e%AA yklkosml yohi yklosqj hAA
olshl gau i kZSefj dfj os j gAA
ukud fruhl gaj kbv kft uhxq dhl [kl dAA
t kfr I dHos kfrkv \$ou fcf/kda fey hAA 2AA
i mAA gdehf lkz fv I kt hvuqgaf Hfr I lkj kAA
rjskgdeaq t ki hdsNl ps/y [kvi kj kAA
ldukuks vfy ygl cfncbqj kAA
I fp j rs sfuj eysgne ft fodkj kAA
ft I qvsgf gI krqfey \$ kZ fpv kAA 2AA

1/4 UK&785/2

I k̄h̄l̄ ar̄ d̄l̄ n̄l̄ esj̄ dj̄ dsck̄sl̄ fruleq̄ h̄lk̄xq̄!
I fruleq̄ h̄lk̄xq̄!!

I ḡr̄k̄l̄ l̄ḡk̄x̄. k̄ht̄ kef̄ ūȳl̄ p̄aūk̄m̄AA
rd̄ ej̄ I ḡk̄x̄' k̄k̄ B̄d̄ rc̄ ḡk̄x̄ vxj̄ eū r̄w̄īj̄ esj̄ d̄s̄ k̄k̄
yxkȳĀrl̄s̄w̄l̄k̄ḡst̄ k̄x̄k̄ḡst̄ K̄k̄ b̄v̄f̄j̄ ft̄ K̄k̄ b̄ūēāḡt̄; ḡ
rd̄ īḡp̄ t̄k̄ x̄k̄j̄ vxj̄ r̄j̄s̄keūl̄f̄j̄ ī <+k̄k̄h̄ī &
I ḡr̄k̄l̄ l̄ḡk̄x̄. kh̄
c̄M̄ k̄k̄h̄ī v̄l̄S̄l̄ ḡk̄x̄
t̄kef̄ ūȳl̄ p̄aūk̄m̄AA
vxj̄ I P̄s̄ūle d̄s̄ k̄k̄r̄j̄s̄keūt̄ & t̄k̄] r̄w̄īh̄l̄ ej̄] ' k̄k̄
v̄l̄S̄ Kl̄dūl̄ I ḡk̄x̄ ḡk̄x̄ Āl̄ ḡk̄x̄ ūle ḡk̄k̄uhd̄l̄d̄ fȳ, r̄v̄f̄j̄
ī j̄esj̄ ōyk̄ḡst̄ k̄ īj̄ vxj̄ r̄w̄ī ūseūd̄k̄s̄le d̄s̄ k̄k̄t̄ k̄k̄h̄ī &
I fr̄x̄#vī . k̄keūl̄b̄ȳS̄ ī q̄M̄ k̄v̄x̄ȳk̄n̄t̄k̄ūḡh̄H̄k̄m̄AA
v̄S̄k̄l̄ h̄k̄#c̄. k̄k̄r̄v̄S̄k̄dns̄ū ḡk̄b̄z̄/fgfuff̄ ȳk̄S̄H̄k̄m̄AA
vc̄īgyhī & ī <&
v̄S̄k̄l̄ h̄k̄#c̄. k̄k̄r̄w̄
I h̄k̄j̄ ūle ḡS̄l̄ k̄k̄ukd̄l̄ĀḡS̄X̄] foos̄] "k̄t̄ āf̄Ū ēq̄f̄r̄k̄ ' k̄k̄
x̄k̄l̄ R̄ & āl̄k̄v̄k̄f̄n̄, b̄s̄k̄l̄x̄q̄k̄ōk̄ȳk̄&
ēS̄k̄dns̄ū ḡk̄b̄z̄
oḡps̄ūv̄k̄ rd̄ ēS̄k̄ūḡāq̄k̄Ā ī j̄esj̄ d̄H̄t̄ēS̄k̄ūḡāq̄k̄Ā
oḡfūR̄ ḡS̄T̄; k̄f̄ Lā ī Q̄k̄d̄ ḡS̄m̄ ēS̄dk̄r̄k̄sd̄H̄h̄m̄l̄ ēaȳsk̄
H̄hugat̄ k̄k̄Ā pfȳ, &
v̄fgfuff̄ ȳk̄S̄H̄k̄m̄AA
ij̄ j̄k̄f̄n̄ūr̄j̄s̄kī & ī j̄esj̄ d̄k̄k̄ȳx̄ t̄k̄Ā H̄k̄m̄; ḡk̄ī & dk̄
opd̄ ḡS̄j̄ k̄f̄n̄ūr̄j̄s̄kī & ī j̄esj̄ d̄k̄k̄r̄j̄shōR̄ t̄b̄t̄k̄ &
ukud̄ I k̄ḡk̄x̄f̄. k̄dk̄fd̄v̄k̄f̄p̄gūḡS̄

I kskxf. k $\frac{1}{4}$ g $\frac{1}{2}$ dhf $\frac{1}{2}$ ku dhf $\frac{1}{2}$ kuD kgS xq I kgc t hdgr $\frac{1}{2}$ i zu
 gavlksp $\frac{1}{2}$ y&
 vafj I p $\frac{1}{2}$ e $\frac{1}{2}$ l $\frac{1}{2}$ art yk
 ft I dsvaj] va $\frac{1}{2}$ j . ke $\frac{1}{2}$ t k $\frac{1}{2}$ s p g $\frac{1}{2}$ &
 ru efg eumkeu efg I kpkAA
 I k $\frac{1}{2}$ lpkfefy I kps kpkAA 1/4uk&6861/2
 og t ksjseu esl p g $\frac{1}{2}$ aog l p I k $\frac{1}{2}$ s $\frac{1}{2}$ l d gavvj rjsvaj
 I p ukgs $\frac{1}{2}$ psu ukgs $\frac{1}{2}$ kt M n $\frac{1}{2}$ z $\frac{1}{2}$ drj gg $\frac{1}{2}$ ka eu rkt M $\frac{1}{2}$ hgS
 ij m $\frac{1}{2}$ i j esqj dkl $\frac{1}{2}$ gls $\frac{1}{2}$ sfdruk Q $\frac{1}{2}$ Zglsx; k $\frac{1}{2}$ og eu H $\frac{1}{2}$ h
 I e>n $\frac{1}{2}$ g $\frac{1}{2}$ x; k $\frac{1}{2}$ A ugæu rkt M $\frac{1}{2}$ g $\frac{1}{2}$ Si kpk $\frac{1}{2}$ Roksl $\frac{1}{2}$ Uk $\frac{1}{2}$ akl scuk
 gaij ug $\frac{1}{2}$ agi j esqj eu ea $\frac{1}{2}$ Bkg $\frac{1}{2}$ ogl p g $\frac{1}{2}$ vc i <avlksp $\frac{1}{2}$ &
 ukud I kskxf. kdkfdv kfpgu $\frac{1}{2}$ S
 vafj I p $\frac{1}{2}$ e $\frac{1}{2}$ l $\frac{1}{2}$ art yk[k e $\frac{1}{2}$ ekfg I ekAA qAA
 D kfu kuhg $\frac{1}{2}$ py vlk $\frac{1}{2}$ &
 vafj I p $\frac{1}{2}$ e $\frac{1}{2}$ l $\frac{1}{2}$ art yk
 rjsvaj I p i zVg $\frac{1}{2}$ st kA og t k $\frac{1}{2}$ s p Q $\frac{1}{2}$ l d g $\frac{1}{2}$ og rjsvaj H $\frac{1}{2}$ h
 rkgs $\frac{1}{2}$ rjs $\frac{1}{2}$ an es $\frac{1}{2}$ V ?V eafj t w $\frac{1}{2}$ l Sog i zVg $\frac{1}{2}$ st k $\frac{1}{2}$ rke $\frac{1}{2}$ k
 rjskrj xlgeamt yk $\frac{1}{2}$ n $\frac{1}{2}$ Toy $\frac{1}{2}$ g $\frac{1}{2}$ st k $\frac{1}{2}$ xlAvxj rvøzeKluhg $\frac{1}{2}$ x; k $\frac{1}{2}$
 ; fn rgsvi usla i dki rkyx x; k $\frac{1}{2}$ A i j esqj dhn kg $\frac{1}{2}$ sb $\frac{1}{2}$ rls
 rjske $\frac{1}{2}$ kb $\frac{1}{2}$ zj dsk $\frac{1}{2}$ mt ykg $\frac{1}{2}$ st k $\frac{1}{2}$ x $\frac{1}{2}$ nj xlgea $\frac{1}{2}$ IQg $\frac{1}{2}$ st k $\frac{1}{2}$ xl $\frac{1}{2}$ &
 [k e $\frac{1}{2}$ ekfg I ekAA qAA
 dgr $\frac{1}{2}$ st k $\frac{1}{2}$ xkdgl dgr $\frac{1}{2}$ s[k e $\frac{1}{2}$ ekfg $\frac{1}{2}$ dy $\frac{1}{2}$ z $\frac{1}{2}$ e $\frac{1}{2}$ ahl ek $\frac{1}{2}$ x $\frac{1}{2}$ vc dks $\frac{1}{2}$ z
 txg ug $\frac{1}{2}$ aj g $\frac{1}{2}$ A og t k $\frac{1}{2}$ psu F $\frac{1}{2}$ ku $\frac{1}{2}$ l dkN $\frac{1}{2}$ l $\frac{1}{2}$ kcu $\frac{1}{2}$ kg $\frac{1}{2}$ l $\frac{1}{2}$ og
 rki gysgh, d F $\frac{1}{2}$ ki j l $\frac{1}{2}$ sh $\frac{1}{2}$ glok $\frac{1}{2}$ l $\frac{1}{2}$ zog ne $\frac{1}{2}$ sk $\frac{1}{2}$ F $\frac{1}{2}$ A l $\frac{1}{2}$ f $\frac{1}{2}$, l $\frac{1}{2}$ s
 i rkyx x; kH $\frac{1}{2}$ zg $\frac{1}{2}$ l ek $\frac{1}{2}$ l $\frac{1}{2}$ o $\frac{1}{2}$ z $\frac{1}{2}$ i usla i e $\frac{1}{2}$ gv $\frac{1}{2}$ k xlA og vi us
 v $\frac{1}{2}$ e $\frac{1}{2}$ ahl ek $\frac{1}{2}$ x $\frac{1}{2}$ A og i j rk $\frac{1}{2}$ l $\frac{1}{2}$ dkkug $\frac{1}{2}$ h $\frac{1}{2}$ og Lor% $\frac{1}{2}$ dkkg $\frac{1}{2}$ l $\frac{1}{2}$ or%

fí nkgs og fur fí nkgsj esoj &
 e%AA ykskogml yoh
 cMÍ gh1½ej ½gyskksl gsd l scf+koskugA pfy, &
 l ykskogdj hAA
 l ykskogl ej osk esej oskd: &
 oskl gau i kozslf dfj os j ghAA
 ft ruso skukysi j osk esej .kdj us si j esoj ugadHh
 feyl&
 t ksgd k lgdj ksgaqkfgAA
 t ku. lgkj sdmcfy t knAA ½uk&85½
 t kuugkj i tkij chuAA
 clgfj Hsku dkgvHhuAA ½uk&269½
 og clgj hosks si l htusdyki j esoj ugadSog l ok ¼c
 dñ t kuusdyk½sl c dhaqfkhw t kxhi j i j esoj rks ok
 gogl c t kuusdykg&
 dfj dfj os j ghAA
 vi usoksdsvgalj ejvi uhvgar ½ge½vi usi PNL
 vgalj ejHbz e>nkj] es slA dgexvj oskHhcuk rks D k
 Ok nkgaik dñ Ok nkukgaik p rks tr gqkghug&
 ukud fruhl gaj kvk
 J hxq vej nk egjk t dgr & gq½ko½ekyd muisi kk
 Hkz &
 ft uhxq dhfi [kl qkAA
 ft uksvi uskq dhf k k ½h k ½k .kdj yhA
 cksl fruleqj hafqxq !



I vlekk I frxq i lknAA

8

oNha e%AA

rvtk kbfgr kdkz k kSA rjskrhvkuqeop[k kSA qAA
rwpj t qdaj fr rjshfcl ekAA qAA j gknAA
rdajki salj . kajki salj . kAA
gdest a. kgdesej . kAA zAA
uleqjskeuruvklik hAA
ukud nk qf[k h rekj hAA zAA cAA

144uk&563½

I jkhlar di k n k esj dj dsckslsI fruleqJ hafgxq!
I fruleq hafgxq!!

vdly i q"kdhrj Q I sJ hxq vtñ ns nejk t lsqDeulek
vk kgsml gDeulesdhQk; kl qk t ssxq ij esqj dhdí k
gsh1@k; kdj &&

rvtk kbfgr kdkz k kSA
gsi j esqj ! di kdj dsft I srwlrk t uok kvi ukvl
t uoknsgohi q"kt k u l drkg rjshdí kl sghvrekdkidk
gskgfrjshdí knkj kghvrekdky{; gskg&

gm<shl t. kkl t. k~~o~~ukyAA
ukud vy[kqy[kv~~S~~jeff knb fn[kfyAA 1/4 u&133 1/2
ij esqj dhdi kl si j esqj dkl; k~~k~~ i j esqj : i] mids
n~~j~~ k~~o~~ht uok 1/4 e>k~~k~~ drk~~g~~ft l svtr ukn~~s~~v k~~e~~dk~~c~~
dj k] m~~i~~ hds v k~~e~~dk~~c~~~~s~~g~~g~~ A
rjsknhvku~~le~~ap[kk~~A~~
; fn rjsndl kl s~~d~~ s~~u~~le i t~~r~~ g~~d~~st k] rjsndl kg~~d~~st k rksule ds
I k~~k~~ dho~~R~~ t~~o~~ k~~A~~ of~~R~~ dkl k~~k~~; g l~~j~~ sx~~k~~
fup~~s~~ A v k~~j~~ h; ghfup~~s~~ A g~~s~~ k~~k~~ ht kg~~s~~og Qk d cge g~~s~~
I c dk; ghfup~~s~~ A vc n~~k~~dki R { k~~H~~h, d dky eaghg~~s~~kg&
, d l eagh~~H~~ku g~~b~~ l k~~k~~h: v k~~H~~h A
ntkpsu dksfo'ks k~~h~~lo; a~~z~~k kAA^{1/2}pkj l k~~j~~ 4@16 1/2
og, d l e; ghaf~~R~~ dkv~~s~~of~~R~~ dk~~s~~ k~~p~~su dkv~~k~~ g~~s~~kg~~s~~
v~~s~~ m~~i~~ dki~~z~~kld t~~k~~psu g~~s~~og, d dky eaghg~~s~~og, l~~k~~
ug~~H~~h~~z~~ k~~k~~hi gysg~~s~~ v~~s~~ of~~R~~ ckne~~s~~ A ekf~~k~~est~~h~~of~~R~~ j grh
g~~s~~og i~~z~~g: i ej grhg~~s~~ l~~o~~ of~~R~~ est~~h~~of~~R~~ j grhg~~s~~og vfon~~k~~
dhof~~R~~ g~~s~~hg~~s~~ b~~f~~ fy, og n~~k~~og of~~R~~ dkt~~k~~ s~~z~~kg~~s~~ k~~k~~g~~s~~
of~~R~~ dks~~k~~us~~k~~y k~~j~~ I Ük~~L~~of~~v~~ z~~k~~ukr avf~~K~~B~~k~~ A 1/2
vf~~K~~B~~k~~ ; k~~u~~ v~~k~~j k~~j~~ v~~k~~~~k~~ A og ij esqj g~~j~~, d [; ky dk
v~~k~~j kog v~~k~~ g~~s~~og b~~f~~ dkv~~k~~kg~~s~~ i j b~~s~~ g~~u~~gai r~~k~~~~H~~h~~z~~; g
ej~~k~~vi ukv~~k~~kg~~s~~lo; a~~z~~k~~k~~g~~s~~ of~~R~~ v~~s~~ of~~R~~ est~~ks~~ v~~k~~ i M~~k~~
g~~s~~og i j rki~~z~~k~~k~~g~~s~~ i M~~j~~ le f~~f~~ g~~t~~ h~~d~~ ck i j cg~~d~~grs~~s~~
og i j rki~~z~~k~~k~~g~~s~~ agrk~~g~~ef~~[k~~kg~~s~~ og t~~k~~ k~~k~~lo; a~~z~~k~~k~~g~~s~~
ogn~~z~~kg~~s~~ ag 1/4 y k~~j~~; g~~n~~; m~~i~~ dk~~u~~le g~~s~~kg~~s~~ k~~s~~ k~~u~~ea

vk A n^ukm^l dkule g[&]t kⁿlusokykg^s j g^as d dky 1/4e; 1/2
eaghni^{ks}k^l sⁿ; t^{ks}g^{og}i j rki^zkk^gfeF k^gSi^zfr g^{sv}l^g
n^ukt k^gsg^l R g^g K^{kg}g^{og}hQ^l d g[&]
I K^{kg}ze Lo: i bd uga^h dks^hA
j k^x ne^hkefr d^hje rke^hekur v^hA^{1/2}plj I k^j 2@12^{1/2}
og t k^h K^{kg}g^{og}hQ^l d g[&]
{k^hK^{ap}ki ekafonf^hkl o^zks^hhA
{k^h{k^h; k^hk^l Ú^hKKuaer^æeAA 14^hh^hk13@2^{1/2}
{k^hrveqst ku vt^hA og ↑ o^zks^hhA^hr* ea^h k^hs^h k^hl^hadk
I K^{kg}W k^hseukadk^h I K^{kg}W cdhoR; k^hdk^h I k^h l c dh
ca^hf^h k^hdk^h K^{kg}g^{ij} g^olk^hdA e^hdkdu g^hfy, e^hlk^h dks^h
H^hdu^h H^hdkulsp* b^h fy,] e^hgr^hkg^hve^hg^hdro^h a^hdkk
v^hsoR v^h ; gi j rki^zkk^gfrusvaj I h^hl^h g^h kds^h
g["]k^h k^h] j k^h&n^h H^hg^hps^hgl coR e^hg^h
d^hks^h fruledj h^hfoxq !



I vlej i frxq i lknAA

9

I ksfBegykAA
xq i jsi uhdv ksj hli Hk?V mi t hnbv kAA
vk sefy oNzdhuhdby [ks i HkHbv kAA qAA
I frx# i jkejsukyAA
i k cqedf fi I nkfugkyAA j gkmAA
vafj clgfj Rku Rkuafj tr dr i skml ksAA
ukud x# i kavkoNkxhfrl q sMvo# u dksAA rAA
qAA zexAA

1/4W&618½

I ksj hli ar di k n k esj dj dscksl fruleqj hdkxq!
I fruleqj hdkxq!!
bzj h okkhdk' kñ nj xlgi si j esqj dhvls i \$J hxq
vtñ ns nelj kvkkg J hxq vtñ ns egj kt i pe xq] i pe
ukud R&
t k : fi gfj vki xq ukudqgk vksAA
rkrsvand k mrr fi mrrqeyk vksAA 1/4W&140½
T k La i xq ukud ns kxvli nj xlgi svldj] t xr xq

cudj] n^u k dsl k^u sdle f^u n^u k 1/4 1/2 fd, i j varkj] dyk
varkj] v^ukvarkj] i v^ukvarkj cgq v^uksqf^u j xq varkj rc
v^urkgs^ut c n^u keav^udkj ep t^urkgs^u b fy, xq ukud ns th
T; k^u Lo: i] ukud dgkj^u n^u keav^ukA plj m^u ; k^u 1/4 1/2
d^uh^u l c d^us^ule f^u n^u fd; A og i pe i k' kgvc d^ukdj rs^u&

I k^usfBegy k^uAA

i pe i k' kg] i kposukud J hxq vt^uns&
k^u fu xxu uo [k^uefg t k^u Lo: i hj fgv k^uhj AA
Hfu eFjkdNdh^usaughxq vj t qqij r[; gfj AA

1/4 1/2 & 1409/2

Hu J kf r g^ux, nj x^ug I A m^ug^u H^udu dkfrj Ld^uj dj
f^u k^u H^udu ds; k^u k^ud^uj I ud& uau v^ufn d^uA m^ug^u 1/4 ud]
I uau v^ufn u^u 1/2 k^u 1/4 k^u 1/2 n^u k^u r^u ekryld est kdj A Dds^uk^us
f^uq k^u A m^ug^u 1/4 A m^ug^u 1/4 four h^udu ds/v^uksdh&gsi j esq!
c[' k^uhht k^u x^u m^ug^u 1/2 j esq u^udg&dfy; q es^u kpdhxnh
i j J hxq vt^uns tc v^uk x^urc c[' k^u k^u A ; s d I ky b
dk dsfy, < k^u 1/2 Qj rsj g^u dk^uhesabudst le gq v^uS, d I ky
dk J hxq vt^uns thdsj dk^u s j x,] m^ug^u c[' k^u og eFj k
Hu I Qdgrkg&

k^u fu xxu uo [k^uefg t k^u Lo: i hj fgv k^uhj AA

1/4 1/2 & 1409/2

og k^u fu 1/4 Foh^uxxu] v^udk keat T; k^u Lo: i i j esq I k^ush^uk
g^ukg&

Hfu eFjkdNdh^usaughxq vj t qqij r[; gfj AA

1/4 1/2 & 1409/2

; ghi j e\$oj og xq vt ū vc n̄l xnhij cbkg\$A nkukdga
vc vJ nkudj yslA bu i j J nkj [k\$bdjg\$esc[' kfn lA
c[' k\$fr ksk khmPj. kdj] m\$g H\$M dhdokkhg\$A d fy,
og xq vt ū ns thdk' k\$vk kgs xq dht c d k\$shg\$I k's
dk ū nkgst k\$g\$A

x#i j e\$#, dkst k lAA

t k\$fr l d\$os ksj ok kAA 1/4Uk&861/2

ft ruhnjs ; g xq& j e\$oj nls e>rkg\$ld dkdle f nukuda
gksk&

I al fx vafj i H\$MBA A ulej H\$MkykxkehBAA

1/4Uk&293/2

e\$nt I a xq j lenk ds & ds k\$vi usvaj bZj nkgs
xq vt ū ns thdgr A vc ule eqsdH\$H\$y kugag D k xq
j lenk] I a R\$A l a] czeKluhdkule g\$I h\$hdcr g\$A cze Kluh
dkl a dgs g\$plgsog fgav g\$plgsbyelu g\$plgsf [kg] \$
fdl hdls e\$plgsdce. kg\$plgs[klh 1/4k 1/2 g\$ t k\$zeKluh
g\$ogl a g&

i s H\$fr m\$fg l sukul dfj fdj i kl aqyki dfj vkg\$A

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t c l dkeu i s k H\$Dr ea d g\$st kkg\$i j e\$oj d k d j ds
b s a c u k n s k g\$A l a i j e\$oj d h d l k d s c u k u g a c u r k g &

cze fxvkuhdm[k\$fg eglsjgAA

ukud cze fxvkuhvki i j e\$ojAA 1/4Uk&272/2

cze fxvkuhl st u H\$AA

ukud ft u i H\$yki dj bAA 1/4Uk&272/2

xq vt ū ns dgr ſcge Klugh gſksft l si j eſqj dj rk
gſt hlo dsd, ½uk ½ kfdl hvſ ſi plk r dsd; ſcge Klugh
ugadſA i j eſqj dhdi kl ſcge Klugh gſksft xq vſl a , d
gſksft og xq j lenk dhdi kl ſeſvi usvaj | kſk i j eſqj
dkfd; kſvc eqsule ehkkyxr kgſvc rjkfd; kehkkyxr kgſ
t ks ddkloſ kozhlyhdkj AA

rwnkl ylefr fuj alkj AA 1½uk&3½

; fn Kludhbnkgſi ſPNluvgallj dksR kx nA ; fn HDr dh
bPNkgſrkeerkdksR kx nA vxj vki uſHDr cuukgsrkeerk
dksR kx nA vxj vki uſKluhcuukgs; st ksvk dks ſPNluvgallj
gſt kſr dkj et gc dkj i kdkj Qyk&Qykld s d rj Q dj nſ
vki dks j eſqj i kſr gſt kxkA ; gmti xq dk kſr vkkgsft l
xq usdqzhrnhvſ vi us kſh dhi j dg ugadhi j | p l suga
VysgMSA t gkxj fy[krkgsi uhrqel 1½uk ½eſA dgr kg&eſ
ld fy, gpe nsj vki kfkpavdſHbz gndku ca dj uhga dga
; gndku c<th>&c<th>lyle dks/kdkukelj t k vſeſ' elj
dkpoykx; kA yks nksntugansgat kek kds/ku kſopkj ſmudk
dsknkgſi nkskrksck kgsdkf kſnſQO Rkfd ; st kubzhqku
gſnti usnqku* fy[khgſHbz g dga kſblyle dks/kdku elj
t k A ld sdBſkRe dj nai og [kRe gassokyhugahKA xq vt ū
ns dks ksdN d"Vfn i j mufdkz knugai j oskſcgeKluhRſ
fuykſkogrlsyis l ſj fgr kA ogrk&

| kſopkjgr l nkfuj yisht kdmdgr xbqkzAA

| kſeq ghefg cl ſuj afj ukud nj i fu fuvkba 1½uk&63½
og rksnſk&k l snjwRſ og rksj kx&nſk l snjwRſ og rks

H_y&gjst snjw_A b_f fy, og rks i j e_{sq} R_m uys&lis
D kyxuk_R; g mudsn_j kb_Zj h_o k_hdk' kn v_k kg_S vc
l q&

x_j i j_Si uhdy A_j h
i v_Zxq j lenk eg_j kt us_{eq} ij vi uh' k_D A_j. kdl_A
v_k dls rkg_S t c_{og}x, 1/4p[k_A/e₁₂&
x_jt k_S v_j t q ekfg A_j hAA 1/4u_k&1409/2
l Hkefg t k_S t k_S g_S k_{AA}
fr l n_Spkuf. kl Hkefg pku. kg_S k_{AA}
x_jl k_{[k}ht k_S i j xV_k k_{AA} 1/4u_k&13/2
v_k vi usvaj n_Sksfopl_j dj d_Sv_k vi us_[k_hof_R; k_{ds}
fdl ds k_kkn_S s_S v_k ds_vaj d_Sh_Zhd ughyky_S ughy_S
ugay_S og T; k_S g_Sk_ds_Sn e_A ogl ce_T; k_S g_Sj og T; k_S
<dhgb_Z<dhgb_Z; k_S g_Srhunk_Sg_Sey] fo{lis} vloj. k_A, d
rks i k_{adhe} rkg_S, d fo{lis} g_Sfd 1/2eu f_Mdrkug_S, d
vloj. kg_Sb_Zj g_S fd ughy_S D ky_k ckadj rsg_S bu r_hka
rk_Sdkn_Swdj ds_S v_k dksb_Zj vi usv_k ghfn[k_A b_f fy,
m_l i j e_{sq} &q dk' k_o g_S xq j lenk usge i j vi uh' k_D
A_j. kdl_j geog T; k_S i k_r g_Z ag T; k_S vc xq vt_Z ns eav_k
xb_Z vc; g_I k_{ps}cM_rks_I R_V k_U hxq vt_Z ns t hdkd_N k_U k_Z
R_R m_l su v_k xb_Z k_Z V g_Sxb_Z T; k_S\ m_l l s_{1/4} k_h l \$2N_Sk
eg_{ks} R_R m_l su_T; k_S v_kxb_Z n_S; khgd rks mudk_Rki j ; grks
b_Zj h U_k R_A og T; k_S xq vt_Z ns eav_kxb_Z k_S xq vt_Z
ns eai d_{lk}kg_Skv_S d_{lk}khH_V k_xb_Z b_f fy, og /j_q dhck_kv_k b_Z
t k_Sq vt_Z ns dks/ k_Z m_l dkvc a k_Z dj rsg_S osdgr_S i j_Sq

j lenk useq ij ' kDr ~~1~~². kdjh eqsog' kDr nsrht lsfll hea
ugaj~~s~~ og bzj h ' kDr eq eavkxb~~Z~~ e~~1~~² h, d ck l qck
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xq vej ns thc xq van ns dspj. kaeax, A m~~u~~as
dg&dlsvk g~~S~~ og dgr&ukt h ejskdk~~z~~ azkugal ef/kd~~y~~k
l azkugal d~~z~~ ugh esrkseksdfy, vki dspj. kaeavk kg~~A~~
1~~0~~ j. kae~~1~~² qdj n~~u~~ d~~h~~ ejst t~~u~~&ej . kdkv n~~u~~ m~~u~~as
dg&g 1~~0~~k 1~~0~~d gr&gkt h 1~~0~~v an ns dgr~~1~~² skxj j [k~~h~~
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l qg H~~h~~ dj ylukg~~S~~ ckj g 1~~0~~2⁰"k~~y~~k] bfrgk i <ej n~~u~~ky~~A~~
, d fnu dkH~~h~~uk~~z~~ 1~~0~~gkt j h~~u~~gaj~~S~~ muds~~z~~ H~~h~~sc~~z~~ k~~H~~
R~~h~~ elgu R~~h~~ elgj h R~~h~~ nkuhR~~h~~ H~~h~~ukR~~h~~ l c mudk~~f~~ki j vki ; g
crkv~~z~~nt~~z~~ d~~H~~h~~z~~ki h xlkj H~~h~~ dj ylukluku dj lkj >k~~h~~
elj uk crz ek~~z~~ anenekl kgcl d ckj ge x, R~~h~~ sl ar ds R~~h~~
bd~~z~~ g~~z~~sh[k~~h~~ k~~h~~; sdj h j 1~~0~~4⁰ g~~z~~st gkoskxj j [kdj #drst R~~h~~ e~~z~~
og i gysH~~h~~n~~z~~kg~~S~~ ogk, d gB ; k~~h~~hdhg~~z~~ N~~h~~ N~~h~~ v~~x~~
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yxj og 1~~0~~B k~~h~~1~~0~~ndj [k~~h~~ngsx; k~~h~~ dgr&v k dkpj . kNud s
ejskmm~~z~~ g~~z~~s; k~~h~~ osdgr~~z~~ skj g o" k~~h~~ sgh; gk [k~~h~~ngsk
R~~h~~ og dgr&v k dkj rkughj vkt bzj h ' kDr vki eavkxb~~Z~~
vki dlsvk ghi rkyx t k xlkj t c og v~~x~~ ,] R~~h~~ hBsdj
yxj xlkj ugafxj ushA og t gk~~z~~ t gk~~z~~ si N~~h~~kg~~S~~ gdl~~z~~ g~~S~~
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, d di N₁ ssøf j i j ckky skg_A t glgk dgr k_C cN_A t c j nlr h
 g_B v krehds k_F l k_E ef kyxr k_G og d_R py g_S b_H p_S
 x, A t c og j_X, rks tsntoku l t k_F A cksct_A dksnlyj_S k' kg
 usi gysghdg fn k_F cckn hoku l t kyskg_S dlsj & pau j xM
 yskgs_V l_S l_J hxq xnrhdhr_S h_J [kuhg_S l_S fcNkrhxnrA
 vklhxkj_A ds k_F l_L l_U J hxq v_N ns usfd; kA vklhds k_F k_{1/4} h
 xq v_N ns t h₂dgr_S dj ys_{1/2} l_U l_{1/2} q" k_S m_{1/2} s_{1/4} h xq
 vej nk t hu₂ dj fy; kA t c vkl dgr_S t kxnhi j] xn_A
 ij c_B x, A og rksl R opuh_{1/4} q dhckr ekuusdky_S t_A
 t glg_S t glg_S dksogk k_C crk H_B m_I usogh dgkuh l q_H og
 t_A t glg_S l_J x; kA 1/4 h xq v_N ns t h₂dgr_S u_A l p l dksl p
 dks/ k_P ug_S sh l prks j esoj g_S k_A l prks
 vkn l pd_S kfn l p_A g_S l_H p_A kud g_S h_H l p_A
 1/4 u_A & 1/2

I p dgr_S b_Z j dks_A og gd dg_S l p dg_S j esoj dkule
 g_S g_S i j esoj g_H l p_A i g_S m_I usdgkckckm_A dks_A f_S yd
 yxkn_A m_I usfryd yxkf_N kA dld 1/2_{1/2} j fn] ; sfueluk_S dk
 eku 1/2_T t r_{1/2} g_S fuj k_C k_C k_C k_C g_S ft udkd_S l_A dkukug_A
 mudkv_k j kcd_S q j fn] dld q j c[k_k fd, xq vej nk
 dk_A d fy, H_B g_I j esoj h ck g_S osdgr_S q i j s_S s_S A i j
 ' kDr k_J. kdj nhxq vt Z ns t hdgr_S og tks kDr Rhog v_K
 xb_Z h_I j m_I ; k_S hdks_I rk_F g_B k_S hdks_I t c og b_Z j ds k_F
 , d g_S; k_C og b_Z j h ' kDr m_I ds_I k_C v_K xb_Z A og b_Z j h
 ' kDr xq j lenk usv i u_S xq vt Z ns i j k_J. kd_A og [k_Q ghark_S
 g_S m_I i v_K xq usvi uh' kDr eq i j k_J. kd_I ' kDr ; kfu og

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I Hk?V ni thrbvkAA

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ukud xjgrsxjgkx kofgfr dhjt kbAA 1/4Uk&490/2
og dgrsblzj dhbPNknkx skdjsvkt xq gks
x; kA eñnnhi j cSkgiqeqsog' kDr i tr gksxbA c dsân kea
n ki SkgsxbA xq vannus c i j n kdl&

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[kqgheesey 1/4eyk/2dj ejshmf; kesNbzj nAD kA

I sd dml skcfu vkbAA 1/4Uk&292/2

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tc; ggde es[Nkngs; krksd si je i nitr gskx k xlA og
xq dhvkt dkxh1/4Uk&292/2 b fy, xq vtâ ns dgr\$eq ij
I jkjjejssq j kerl dhesj dkhsj klg&

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; gi jesqj dksHydj nkki krkgS i jesqj b shyt krkgS
b dhdbZrj gdhdk uk; Hj hi Nga og 1/4k ukvksd\$1Qq k
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nsqgA; g vki [kj nj j gula vki; scrkvksvldkeu vki ds
I leusgsvki; g dgrsgs/vkt ejsk 1/4u1/2b ugtavkt b d g\$
nbdj dgrsgs/vks eu est ks vki d\$og Hhvk nksqA eu ea
vki dst ksdMk kqkqkqg vki uskj kgs plgsd t le ea
Hj k plgsf Nyst le esHj kA og dckMhrksvki dksfn[kkgs

vxj vldkeu ule dsl kkt t kxj ljsdckMcg tkx\$
vldkeu lQ gstdkxj ijesq ikr gstdkxkj ule udHh
Nksa&

fl ejf fl ejf uleqkj acj AA ukud th dkbgS/AA
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[kkr rrcopkj vksnkt xksa i j kb kAA
vfcuk h[le plgfg t sukul rkfl ejf ulj kb kAA

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vt leyqki ht xq kusue [kekfg ful rkj kAA 1/4uk&632/2
vt ley fdruki k hA og i M RkcM Hj A og xq dsi k
t k kA xq usn sdg&Hj j krs sugar u k j krs s
tkukA og j k kdk & kA og oS kdk 1/4k kA ; gkI sugar
xqjukA m us, d fnu dg&xq elyHj j k kcdkgs; gkI s
l hikD kau xqj+ t kA m usxq dsopu dkmYku dj fn kA
m hnu m dkl bdlj Q x; kA og fQ ogk 1/4s kds k 1/2 sgmk
ugA j kt k dk og i jk j k i M RkA m dk fir k m s
i <efy[kdj]; kX culdj] ogkfcBdj x; kRk xnhj A j kt kus
m sdgj, d ck dj Hj; krksn sNkA sugar lsjkt i M dh
xnhj l \$2mB t kA og dgrk & esq qg crkA l qg vldj
dgrk&Hj efsogk l srksgV ugjl drk vki eqsfudk y nka
dgrk&Hj efsogk l srksgV ugjl drk vki eqsfudk y nka
dgrk&Hj efsogk l srksgV ugjl drk vki eqsfudk y nka
pysx, A brusea d l avkx; kI aks l smi dkcm q Rk&

i q i q fcufeyfgul aka

I rl afri l afri dfi vnkA 1/4hj lepfj r ekul 1/2

t c b dsi q i sk gssgarkslb sbzj] l a l sfeyrk g
cgekkhl A og cgekkhl s j esqj dksfeykrnkg&
r sklcaff e sklcaff r wklud efu Hlk kAA
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gsi j esqj ! rjsst rukcNl kZ gZ j rjssj kj dkdlskZ gZ arw
l cdkekyd gsva; kZ hgsok d gscf' kg sij eas i j l skh
dqZ t kkgv l dsl kfkfeydj e skfeykA esq j kenk ds
l kfkfeydj vkl dsl kfkfeykA mli 1/4q 1/2 sh he sdqZ t k k
gAmli l a usi Nk & kZ lht xg crkv l se ej k forkuhgS cN
, dka gHDr gHDr vPNhejshj k fudy tk Hlt u dj rsgpA
mli dsx t key dsl q lsklZ mli usd gk fd; kHbZ, d ; gk
vt key HDr] cN kHbZ hHDr gSt ay es grkgS okpykt k cN
vPNhrjshj k fudy tk t c og x; k og y Nlh 1/2 k/2 BhrkA
og f kdk oxsg 1/2j uskpydfmkyss; kFkA mli y Nlh 1/2 k/2
us ktkt c mli l a dls 1/4a og 1/2 k [kNlgakA mli usd gk fd; gq
; gcrk kgfd ; gI R a dht xg gvt key ; gk, d HDr gA es
j k forkuhgS kkes R a gsk ejshj k ch t k xhHlt u dj rs
gq dIA og y Nlh pj . ksesfj dj cgq j kZ mli usd gk egk kt
vkldkset fd; kgS ge r kseki k hga

vt key q k ht xq kus 1/4 uk 8632 1/2

vkvlk sklcaff mudk cN v k j fd; k l a dksfBkfn kA l a dgr k & HbZ
j k rkvc ; gkghdk kA bruhri esaq vt key dsi k xbZv l S
dgr k & HbZ c dN Qsl n gk & S kskj l akspj . kesi M kA og
vldj 1/2j . ksesfj i Nl agnksk c cN k l a dgr k & gk grk

ḡvnti usn̄tig k̄ dksn̄tiskfn̄ k̄ekcrkfn̄ k̄uj k. k̄ H̄bz̄a ds
 'dk̄ 1/4k̄ 1/2d u ; sn̄s̄l̄A rjsi k̄ dks̄zgavk̄k̄ ; e dks̄zgā
 v̄k̄ xl̄An̄ usog 1/4e 1/2k̄. kdj fy; k̄ AHD rksf̄+kgss̄ egsog
 Kkuharksk̄s̄; krks̄segk̄k̄h̄j̄ pys̄ ts̄ kp̄brh̄j̄ kt̄k̄ḡ ; st̄c
 n̄f̄ kdk̄Nks̄, dne Nks̄svc v̄k̄ l̄srkst Yh̄Nm̄huḡ
 ld fy, ; sn̄s̄h̄s̄a dk̄efid dḡki gq̄k̄ og t̄c yxkule t̄ i ūv̄l̄S
 l̄a pykx; kv̄l̄S t̄c va dky v̄k̄krks̄og ūj̄ k. k̄ ule t̄irkf̄A
 nh̄ 1/4a 1/2sdḡ&k̄dk, d cPpkv̄l̄S ḡk̄ m̄t̄dkule ghuj̄k. k̄
 j [ukv̄l̄S; fn̄ ule yskḡj̄sv̄k̄dsef̄k̄ suj̄k. kghfudyA ūj̄ k. k̄
 m̄t̄dkule ḡt̄k̄ k̄sj̄ kdkv̄k. k̄ekyd] v̄k̄ j k̄ij esq̄ ḡm̄t̄dk
 ule i j esq̄ ḡsuj̄k. k̄ḡ og t̄irkf̄kv̄l̄S brusea enrwkx, v̄l̄S
 j lex. kH̄hv̄kx, A og 1/4lex. k̄2dḡj̄sv̄k̄ D k̄av̄k̄ ḡs̄ 1/4enw1/2
 dḡr 8/18/2 k̄hḡ osj̄lex. k̄2dḡr & gdgrkD kḡSdgr&dḡrkrks̄
 ; gule t̄irkḡdḡr&ule t̄i usdkdH̄ki k̄hḡskḡ&
 dm̄dk̄dyalq̄fgv̄k̄ le ulegys ḡAA
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 dḡr&ule t̄i usdkydkdks̄zdyal j gkḡS m̄t̄ dk̄efid ds
 dyal dḡk̄pysx, \ l̄ /usdkdks̄zdyal dḡk̄pysx, \ j fork̄ dsdḡk̄
 pysx, \ os̄ k̄1/4. ldk̄ 1/2dsdḡk̄pysx, \ ule esbruhrl̄dr ḡ
 m̄t̄ us enrwkx dks̄fudly fn̄ k̄fudy t̄kv̄l̄S ḡk̄ & j lex. kvkx,
 tq̄ og l̄ h̄k̄osd̄Bdls̄; k̄A ule esbruhrl̄dr ḡSj̄ ule Nks̄l̄k̄
 ukdH̄k̄&
 ḡf̄ki kmdfj dk̄edj H̄apht̄qfj & u ukyAA 1/4ūl̄k̄ 1376/2
 Qdl̄j̄ L̄Fyks̄ 1/4s̄ 1/2s̄pydj v̄k̄ k̄A t̄c m̄t̄ usv̄ldj i Nks̄l̄k̄ og
 xq̄ dks̄& kḡSft l̄ ds̄ k̄z̄ s̄m̄t̄k̄ ḡst k̄kḡSxq̄ vt̄z̄ ns th̄

byk ph cjh ds uips [14] R\$ NMA gfk ea FKA og dgs
R&dg&Hbzdg! cMAdj kmBk k' kckk! og Qdlj 1/2gr&ks
I 15/200/2dkl j kkrkr; dj dk k, bse[17] g; grkl lkj h
vkrehgSogk l sofi l 1/2k l 1/2pykx; kA xq vtZ ns usclck
c14kt hdkcogk kHbz; g Qdlj pydj vk kgSd fy, vk kgS
ld st yks j k gfrvtldj vks \$ml uslckc14kt hu\$2/dsj k
Rk mBk k gqk ml dseljuk i 1/2l dj k l fruleqdgdj
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dspj . kesi N1 og dgr k&u k t gk l sofi l 1/2k l 1/2k kgS
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ejsk eu] I Ppsule dsl kfk Qdlj ! t k gqk g; g ejsk
B&dkk14i j hOogk 1/2g; gkge l j ksj cuk x\$dlmZ gqk
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ld fy, Hbz t crd ; g tlo xq i j esqj d\$ kkgut 1/2rc
rd ld sd dkasB oxSg ugafeyks l dkij ekfzgaf n k
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ogl nkgl H^hyski j fl ej uu N^hsk^h&
[k^hsr [k^hsr rr^hphpkj vksn^h xksn^h i j k^h kAA
vfcuk^h h[ke plgfg t suku^h l nkfl ej ul^h k^h kAA

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vl^h d^hst ksule feykg^h plgs v^h d^hsi kp l; lk^h s^hfeykg^h plgs
I a l s^hfeykg^h st k^hkv^h d^hksule feykg^h og N^hsk^hker dH^hA ule
vl^h d^hks^h seaydj t k^h x^h vl^h d^hhef^h dj d^hst k^h x^h A ule] uleh
d^hsi^h tr dj dsgV^h kA b^h fy, tc rd vl^h d^hsi k^h ule ugad^h sk^h
vl^h d^hk^h g^h kdk^h Z^hg^h

i k^h c^he t fi l nkfugky AA j gknAA

m^h i k^h c^he i j esq^h dkt k^h fd; kdj A xq l k^hgc dgr^hrvlnk
ghfugky g^hst k^h x^h n^hks^h sj f^hg^h g^hst k^h x^h rjshef^h g^hst k^h x^h A
i p^he i k^h k^h dgr^h s^hg^hrfugky g^hst k^h x^h i j i k^h c^he dkt k^h uk
N^hsk^hkdH^h&

x^hji t k^hfn uleq^h i g^hb/v^hkAA

1¹/₄Uk&290¹/₂

xq d^hdl k^h st i &

i k^h c^heq^h fi l nkfugky AA j gknAA

xq d^hdl k^h st i Adchj usks gkrd fy[k^hg^h&

rft H^hje dj e fc^hf/kfu[k^hk^h le ulegys^hAA

x^hji t k^hfn t u dchj j leq^hfj l ushAA

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dgr^hk&N^hsk^h/s^hks^h k^h s^hleZde^h fo^hf/kfu^h k^h knjwQd^h&

j le ulegys^hAA

x^hji t k^hfn t u dchj j leq^hfj l ushAA

1¹/₄Uk&692¹/₂

xq d^hl k^h s^hxq d^hs t k^hn n^hks^h kule t i A l a vd^hksule nsnsk

1¹/₄Uk&S vxj v^h k^h [k^hleZdH^hce; k^hkl s^hule yks^hki kp 1¹/₄ k^h k^h

I syski N_{AA} v_{IS} d_{IS} v_{IS} d_{IS} kule u_{IS} ans drkA I a rki gys s
v_{IS} kule nsnsko_A e_{IS} / k_{IS} ayh_{IS} / p_{IS} / es_A grk_{IS} og_{IS}, d I a
vkx; k_{IS} I Os di N_{AA} k_{IS} i k_{IS} dd_{IS} k_{IS} m_{IS} usule nsni kA og
x_{IS}[' kff g_{IS} t_{IS}. k_{IS} f_{IS} g_{IS} dkps_{IS} og_{IS} m_{IS} d_{IS} f_{IS} A 1_{IS} / k_{IS} 1/2
dgr_{IS} k_{IS} l_{IS} 1_{IS} / x_{IS}[' kff g_{IS} dgr_{IS} k_{IS} uk_{IS} s_{IS} j_{IS} og 1_{IS} / a 1/2 p_{IS} k_{IS}
H_{IS} kfQj A dgr_{IS} k_{IS} l_{IS} usv_{IS} susule fn k_{IS} I a vd_{IS} kns_A drk
g_{IS} ze klu_A b_{IS} usdgk_{IS} s_{IS} k_{IS} v_{IS} sus_{IS} k_{IS} k_{IS} I a cpl_{IS} kH_{IS}
x; kA og efgyk; H_{IS} ap_{IS} h_{IS} k_{IS} H_{IS} Z_{IS} gel_{IS} sk_{IS} d_{IS} k_{IS} D_{IS} kg_{IS} k_{IS}
bruseejssi k_{IS} vkx, v_{IS} es_{IS} og dgr_{IS} x_{IS}[' kff g_{IS} dgr_{IS} k_{IS}
I a vd_{IS} kule ns_A drk_{IS} b_{IS} usv_{IS} sus_{IS} k_{IS} kg_{IS}; g_{IS} rki k_{IS}
dd_{IS} k_{IS} k_{IS} k_{IS} [k_{IS} b_{IS} us_{IS} 1/4 [k_{IS} b_{IS} d_{IS} v_{IS} Bsd_{IS} us_{IS} A og cpl_{IS} k_{IS}
H_{IS} x; kA I a vd_{IS} kns_A drk_{IS} e_{IS} / sdg_{IS} & q_{IS} g_{IS} d_{IS} dgk_{IS} s_{IS} rk
yx_{IS} e_{IS}; g_{IS} v_{IS} kp; Z_{IS} k_{IS} H_{IS} Z_{IS} j_{IS} , d_{IS} d_{IS} si rk u_{IS} aks_{IS} A og
dgr_{IS} k_{IS}. k_{IS} f_{IS} g_{IS} l_{IS} s_{IS} rk yx_{IS} g_{IS} d_{IS} H_{IS} fd_{IS} hd_{IS} sg_{IS} k_{IS} d_{IS} u_{IS}
d_{IS} g_{IS} a_{IS} d_{IS} s_{IS} k_{IS}] cze klu_{IS} d_{IS} k_{IS} u_{IS} g_{IS} sk_{IS} v_{IS} k_{IS} i k_{IS} cze
i j_{IS} es_{IS} dkule t_{IS} i k_{IS} f_{IS} fugy g_{IS} st_{IS} k_{IS} k_{IS} s_{IS} f_{IS} g_{IS} st_{IS} k_{IS} k_{IS} ; g_{IS}
J_{IS} hq_{IS} vt_{IS} n_{IS} t_{IS} h_{IS} v_{IS} k_{IS} d_{IS} leu_{IS} d_{IS} g_{IS} s_{IS} i <ns ghi &
i k_{IS} cze t_{IS} f_{IS} I nkfugy AA j gkmAA
m_{IS} i k_{IS} cze i j_{IS} es_{IS} d_{IS} k_{IS} fd_{IS}; kd_{IS} A x_{IS} q I k_{IS} g_{IS} dgr_{IS} s_{IS} r_{IS} v_{IS} n_{IS}
ghfugy g_{IS} st_{IS} k_{IS} x_{IS} n_{IS} k_{IS} s_{IS} f_{IS} g_{IS} st_{IS} k_{IS} x_{IS} r_{IS} he_{IS} f_{IS} g_{IS} st_{IS} k_{IS} x_{IS} A
i p_{IS} e_{IS} i k_{IS} k_{IS} dgr_{IS} s_{IS} r_{IS} f_{IS} fugy g_{IS} st_{IS} k_{IS} x_{IS} k_{IS} i k_{IS} cze d_{IS} k_{IS} uk
N_{AA} k_{IS} d_{IS} H_{IS} &
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↑gkm† gkskgs kx; kedsfy, A ; gi fDr nksck i <usdsfy,] gk
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vafj ckgfj Rku Rkuafj

og i j esqj dgkgsrjsvaj HkgsVlS dgi HkgsRku Rkuaj
'kj lji kaeaHh vls 'kj lji dylaeaHh gS; g l kj si fj i vlgSog
i kj cgeA dlkz tsht xg ugt gki j esqj ukglA ogj le thi Wrs
dkelfd dks&dkz tsht xgl , dka t xg crkvksdkelfd geusri
dj ukgs k dj ukgs ag _ f'kakelfd dgr kscrkxkj le th
i j vki eqs scrknst gkvk ugt gSog 1/4xg/eqscrknstQ
est xg crknstA vc dbscrkij le t h Hbzt gkugai j esqj]
i j esqj rksQk d gA b fy, HbZog i kj cge I kjsQk d gS
i f i vlgS c dhcakdknukgs klg&

elbz jfr cknaygal#AA vlgq evkt knsk lg# AA zAA
t Sdkj f. kr fV r h fkt lghAA jru i nj fkrV ghelghAA
i fM fM fM fM cknop[kk kSA Hlrfj gkhol r qut k kSA

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gmu evkejshelzcykbAA vlgq evkt kj fgvkl elkbAA
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fQ t l e ysk&ej ukxq l kgc dgr sdgk og dgr s ejshrk
HwudyhgqzSxq ukud dgr si fM! rqs rkgS "kMkLh1A g
' kLki <ggzdk rjsHwugafudyhj rjshvfon-knjwugagA
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 i f i v~~llj~~ j esqj g~~llj~~ dksfn[krkgsxguk] g~~llj~~ g~~llj~~
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 x~~llj~~ i j es# , dks~~llj~~ k~~llj~~ A t ksfr l d~~llj~~ k~~llj~~ s~~llj~~ k~~llj~~ j ok k~~llj~~ A 1/4uk&964½
 og xq i dkkgsxq ds~~llj~~ k~~llj~~ v~~llj~~ skugadet l j~~llj~~ esdHh
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 eu g~~llj~~ b esd~~llj~~ k~~llj~~ fadlj H~~llj~~ si M~~llj~~; g~~llj~~ m~~llj~~ dsghi h~~llj~~ spyr k~~llj~~; fn
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, d fpr ft g bd fNu f/kv/kov kAA
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, d {kkek kHld s j esqj dhi kfr gst k fq rksdjh cu
tk xk ulens cu tk xk kulk cu tk xkA fq ; g nfu kdk
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I vlej I frxq i lkfAA

10

Auk j hegykzAA

t kdmgsj j xaykxkd q q efg l kdghvr g\$ jkAA

vkre ft. k\$ xy off rkd\$ kdkl fr x# i jkAA qAA

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I j. kh i kou ule f/k kou I gft I ekau I fkAA qAA

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t u dspj u ol fg ej S h vj \$ fk i qh knshAA

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ft u i dlmfrughi k kAA 1/4 e x 1/2

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og cM i jekvkehga i rc yxrkg t c b sl lkj ea
feF kudkf p; gsk A t c l lkj b smR fukk i y; dyk
yx tk] HbZ g mR fukokyj i kyuk ukkdyholrga; solrqi
mR lsh Hhgshgavjs ukk Hhgshgaj , d i j esoj g st k
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I fr l : i qj nsf fu ekfuvkAA

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fu ak 1/4 fer dj usdkykl c dkelydA m d s k kft l dki
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vkre ft. k xy off rkds

vlre ft. l&vlrekule l k^lpsu dkg^l dsvi usvk dkga^l
b smi dhtm&gj ughai NAA ogjt m&gj ugha^l vlr^lek^l
ml eadlk^l t^l nkg^lghu^l; gkvrekopd g^leu dIA ft l useu
dkst h^l fy; kAvc fQ i &

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1/4L1&61/2

ft l useu dkst h^l fy; k^l ml usl j^l st xr dkst h^l fy; kA eu gh^l, d , kshdr^l dkeu ughat h^lkt k^lA t c rd eu b dkule
ds k^lkugat NAA rc rd eu ughat h^lkt k^lA eu t h^lusdk, d gh^l
rj h^lkga^l t c i s^lkHDr ea/k^lk] i j esqj dsule ds k^lkeut NAA
t k^l] eu t h^lkt k^lxkA ml ds c o keas^lj esqj d\$ij ; fn eu
dkst h^l yrsk^l dkdk^l nkg^lst k^l&

t kdkl fr x# i j kAA qAA

ft l dki v^l rxq g^log eu dkst h^l y^lckck^l v^luseu dks
t h^l fy; k^l 1/4ft R^l \$j zkosuseu t h^l fy; k^l dcj^l useu t h^l k^l /k^lus
useu t h^l k^lA t k^lcege kluhg^l ml dkeu ml ds o keas^lA eu
dh^l Rkrksd^l z^lu^l a^lYi &odYi gheu g^l a^lYi &odYi dks
eu dgrsg^l fu p; Red nf^lV dksqf^l kdgrsg^l vge-olyhoff^l
dks/gdgrsg^l spau dkyhoff^l dksf^l kdgrsg^l splg^l fu; kdk
spau dj splg^l Zoj dkspau dj A^l dy, t h^l &gj eudj rkga^l
vlrekvt s 1/4t h^l 1/2gogl kgc g^lekyd g^l

Bd^l xk^l S^l k^lre j fAA

i s ds k^lkBd^l dj dkule t f,] fu/ k^l u df,] f ej u df, A^l
, d Bd^l jekdkmik d xq vt^l no ds k^l v^l k^lA dgr k^l H^l v^l
Bd^l jekdkmik xq l kgc dgr &

Hj^es^hyk^l kdr qJ^r kAA
 ut# fcj^{ky} k^f [k^f ej r kAA qAA j gknAA
 ft l q^j kg^g kdmBd# dgr kAA
 vks^k lg^g kgy Sm^h dm^l dr kAA 2AA
 xqgxkj^j yvkgj lehAA i kg kuko u i kj fxj lehAA 1½uk&739½
 i R^{kk} dhul^k skij p[<] ej dl^{ks} k^j ugaga^l b^g fy, ; g^t ks
 Bd^g g^g; grki zl^l m^{lk} uk^g; g^g Sm^h lk^g uk^g xq
 l kgc^g dl^{ks} og c^g xhl a dgr k^j thvk^l Bd^g dksughaekur^s 1¾k
 l kgc^g dgr^g &
 x^j fefy ukud Bd# t kr kAA
 t fy R^{ky} eg^{ky} fy i jw fc/kkr kAA 1½uk&739½
 ge^j krks^j f^j i B^{dk} d^g t c ge xq dl^{sfey} x,] ; gi^j k^j rk
 yx x; kA; gnM^g n; vkn^l c d^g v^k g^g
 el^z jfr ckny gal[#] AA vks^q evkt kn^{sk} lg[#] AA 2AA
 t S^{kk} f^j krV r^j f^j kt kg^h AA jru i nk^g f^g gh^g AA
 i fM^g fM^g fM^g fM^g fM^g op[k^g k^g H^g f^g g^g hol^l r^q t k^g k^g 3AA
 1½uk&152½
 ; g^{kr} rd t k^l dj n^h sxq l kgc usc[k^h f^h kA og dgr k^j thvk^l
 u^g ae^j k^g e^g sky M^g kej x; k^j egs k^g g^g v^k u^g ae^j k^g 1¾k
 l kgc^g dgr^g &
 gm^u evkejshel^g cy k^b AA
 vks^q evkt k^j fg^g k^l el^b AA
 dg^g kud x^{fj} cge fn[k^b v kAA
 ej r kt kr kufj u v k v kAA 1½uk&152½
 t kn^z mk^g og^q krd g^g n^h krd b^g sxq i gpkl drk^g

I k̄k̄h̄rd b̄ sk̄ i ḡp̄kl dr̄kḡs̄ l̄ [kr̄d b̄ sk̄ i ḡp̄kl dr̄kḡs̄
dch̄j̄ I k̄ḡc us̄i us̄t̄ d̄ x̄kēs̄ l̄ [k̄ds̄v̄ks̄ ḡp̄kf̄n̄ kv̄l̄s̄ x̄q̄
I k̄ḡc us̄t̄k̄l̄ IQfy[k̄ḡ&

ukud i l̄ [k̄y k̄f̄ ft̄ fu [k̄s̄k̄ [l̄ ki Nk̄. kv̄l̄AA 1/4 11/2 & 14 1/2
i l̄ [kr̄k̄d dk̄v̄k̄ kv̄l̄ Rēkḡst̄ k̄s̄k̄ [l̄ s̄l̄s̄ ḡp̄kuus̄s̄kyk̄ḡs̄
[k̄s̄k̄dls̄ ḡs̄ eūl̄ eū ḡ ad̄ 'k̄y uḡaḡsk̄ ōs̄k̄A [k̄s̄k̄l̄s̄
I āYi k̄ad̄l̄s̄ [k̄y k̄y k̄d̄l̄s̄ ḡp̄kuus̄s̄kyk̄] ōghi l̄ [k̄ḡs̄ Ōk̄d rc̄
b̄ dh̄nf̄V eav̄k̄ x̄k̄; fn̄ v̄ [k̄ad̄l̄s̄] c̄ze v̄kl̄j̄ off̄ ḡs̄hr̄ls̄ ḡ
Ōk̄d es̄i ḡp̄s̄k̄ b̄ dh̄n̄ k̄gh̄cn̄y t̄k̄ x̄hd̄ fy, ft̄l̄ useū d̄ls̄
t̄h̄ fy; k̄l̄ l̄ k̄l̄ al̄j̄ t̄h̄ fy; k̄&

I j̄. k̄hi k̄ou ule f̄kv̄k̄ou
oḡx̄q̄ I k̄ḡc t̄heḡj̄ kt̄ d̄gr̄&
t̄k̄j̄f̄ kv̄lōs̄r̄l̄ q̄d̄Bylōs̄ḡfcj̄ nd̄ q̄lehl̄ āAA

1/4 11/2 & 5 4 1/2

'l̄. kēs̄ Nk̄ḡs̄v̄l̄s̄ ule dk̄/ k̄ud̄j̄ uk̄ḡs̄ ule dk̄f̄ ej̄ ud̄j̄ uk̄
ḡs̄ i j̄ es̄oj̄ dh̄l̄j̄. k̄x̄fr̄ v̄k̄l̄j̄ hḡ&

I oz̄lek̄l̄f̄ R T̄ ek̄es̄l̄k̄. k̄ōz̄ A
v̄ḡāR̄k̄l̄ oz̄ k̄i k̄s̄l̄k̄s̄ " k̄ē ek̄' k̄ḡ%AA 1/4 11/2 & 18@ 6 1/2
v̄k̄l̄j̄ dk̄' yk̄l̄ x̄h̄kdk̄; gh̄ḡs̄ ; ḡx̄h̄k̄l̄ el̄r̄ d̄h̄' l̄. k̄x̄fr̄
ex̄h̄k̄l̄ el̄r̄ d̄l̄A n̄f̄; k̄dh̄fr̄ ruh̄H̄D̄; k̄ḡs̄ gȳl̄ oḡ' l̄. k̄x̄fr̄
est̄k̄dj̄ I el̄r̄ ḡb̄Z̄ aḡi v̄k̄l̄k̄H̄D̄ I s̄&

i s̄ H̄x̄fr̄ m̄k̄f̄ l̄ sukud̄ df̄j̄ fd̄j̄ i k̄l̄ āoȳk̄f̄ df̄j̄ v̄k̄ḡs̄A

1/4 11/2 & 1 3 8 8 1/2

i s̄k̄H̄D̄ t̄c b̄ ds̄an̄ eav̄k̄xb̄Z̄rl̄s̄; ḡ l̄ ā cu t̄k̄x̄k̄A
i j̄ es̄oj̄ dh̄di kn̄ek̄; ḡ l̄ ā cu t̄k̄x̄k̄A I ā D̄ kd̄le dj̄ r̄kḡs̄

I a] bZj fn[lknsgS xq l kgc usfylkgS pe i k' kgus&
 I al fX vafj i HMBAA
 uleqj HkkykkekAA 1½uk&293½
 I a dsl a l sd sckgdst krkgS ejskl Kkj psu 1½g½dkid
 gA Hkbzdi fl ej usd ij cgg l ej fy[lkgS og dgrkj og D k
 gS og l Kkh: i skl c dsval foj ktelu gS og xq l kgc usHh
 fy[lkgS
 nkukchukl koeSkukud l kj ut k kkr jshAA 1½uk&520½
 og nkukchuk 1½kust kusdyk½ kZS vldsvaj tkskukvJS
 chuk gS chuk ule gS kusdysdkj nkuk ule gSt kusdysdkA
 t kusS kusdyk, d psu gS npi kdkall 1½uk&293½ kusdyk
 vJS ukn kusdyk 1½g½; gkj elfir gSt kkgS og l kZS og ekfyd
 gS og dgrkj thog l kZS gS og dgrkj og l cdsval l Kkh i sk
 ½i l kZfj ktelu gS og i kj [k: i skfj ktelu gS bl fy, HkZtks
 i j esoj gS dkHkZf ej udj ukvJS' kj. kesi NkkvJS ule dk
 / kudj ukjai ukA ule dkght i ukj ule dkghf ej udj uk&
 fl ej fl ej uleqkj ackj AA ukud t hv dkbgSv/kj AA
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 bdkmkkj fl ej ul sgA tcrd ij esoj xq dhdi kl sd s
 fl ej u ugai Hr gqkj rc rd mkkj 1½kjj 1½ugakjk&
 fl ej fl ej uleqkj ackj AA ukud t hv dkbgSv/kj AA
 1½uk&295½
 fl ej u fdll dkdj ukgs ule dk&
 ule l fX ft l dkeuqkfuvkAA
 ukud frufg fuj dluq kfuvkAA 1½uk&281½

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vfcuk h[ke plgfg t sukul rkfl ej ukj kb kAA

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; fn rwfaulkhi n dhi hr plgrkgfsl rkfl ej udj] dñ
vlsug f ej ul si j esqj i hr gskg f ej um i j esqj ds
ule dkdj ukgs ule&ulehdkvHs ga tc rjskeu ule ds lk
t 1/4x; k rjsuleh 1/4j esqj 1/2i hr gsk k xlA rjsk ft ruk Hh
vkuk&tukgs c [Re gsk k xl&

I skdj r gk fudklehAA

fr l dmgs i j k fr I qlehAA

1/4UK&286½

I skl svaj. k 1/6u1/2 kqkgs skl sgh i j esqj i hr
1/6sk1/fy [kgqkg&

Hbz j ki fr ekuknsjhv kAA

xksa fey. kdhlgr jshcj hv kAA

1/4UK&12½

; grjshc j hxsksa dksfeyusdhli Qy gsk k xlA ld fy, Hbz
i j esqj dkf ej udj ks/ksm dk/ kudj k&

I gft I ekou I fkAA qAA j gkmAA

I gt La i eaurjskl ekt k A eu l ekx; krks lkj [Re gsk
tk xlj i j ekrekdhli hr gsk k xlA ld fy, xq I kgc usfy [kg&

ld rsAi fj ughchpk#AA

tkdSe fu cfl vkfuj al#AA

1/4UK&292½

ld l svksdksZfoplj ugags i j ekrekdhli hr rd vksj h
v[kaljk] oge vldkj ofR ft l syodgrsmti fyol s/faukkh
i ndhi hr gsk kuhg&

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gkt k&
 t u d^spj u ol fgejss^shvj S
 t u d^spj . kejssân ead rsg^s pj u* Hko 1/4R^sule dkHh
 g^s og ule tkeqskq ush^s kg^sog ejssân ead rkgs^s og ule
 uehdksys/k k&
 x# t k^s vj t q ekfg /kj hAA 1/4Uk&1409 1/2
 xq j lenk thusog T; ks xq vt^s ej [knj] og xq g^sx; k^j
 ogi v^sxq g^sx; kA t c T; ks ân ei^s dVg^st k] og xq g^st k^k
 g^sj I k^kgh gHhf^sy[kg&
 I Hkefg t k^s t k^s g^s kAA
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 i dkkrkst; ks 1/4 k^s 1/2eagskgs T; ks rksgj , d dsân ea
 g^s vxj T; ks u g^sksvi us[; kyksdli dl k^kki goku^sofR; ka
 dksdli dl k^kki goku^s vks n^slyhld dsvydkdks^s gokuusdyh
 ck ghug^s og t k^s rkgs^sj og i dVug^s og i v^sxq dh
 dl kl sgi k^s g^sA og T; k^sLa i i j esoj [kqnf^s; keav^k k&
 t k^s : fi g^s vki xq ukud^sdgk mAA
 rkrs vand^s mrr fl mrr feyk mAA 1/4Uk&1408 1/2
 b fy, T; k^sLa i txr xq cudj nf^s; keav^k kA m^s txr
 xq usnf^s; keapl^s m^s ; k^s 1/4k^s 1/2d^s d^sftrushhi j esoj ds
 I k^kfeyusdyft Kk d^smul c dlsi kj dj fn k^s k^kage vkn
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 dgr svvks fo-ki gysgh^spsurksuR i fo-kgs^sj rjsl k^kea
 ng Hhi fo-k^stk xht c r^sst; ks dhow 1/4e>1/2g^sxb A Hbz

t ksh tks* i j esq , d gA ogl cdsân eam dhT; ks gA ; g
rjsk kj h Hki fo kgst k xl&
tu dhkvngfdj i kfuf/k
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ukud d\$ bkg gAA
xq vt ns t hdgr \$eqs ejssy, ½ks ghl bkg \$eqst uks
½pj . k ½ks ns t uks knk cuknks og ½q j lenk ½eq i j
di kdj sseks l mudspj . k dhkvngfdj ÅxkA
tu dsq u ol fgej \$hvj \$ fk i qhr knshAA
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dkks fruleq holgxq!



I vlekk I frxq i lknAA

11

I ksjBegykAA

xqj i jspj uhykvvkAA gfj I fx I gkz kvvkAA
tg t kzzgkI gssAA dfj fdj i ki fHkesAA qAA
gfj xkxlogd rkl hkkAA eu fpas xysQy i logd hv
dS fx I gkzAA qAA j gknAA
ulj kb ki kkv kAA ge I a t ukj slj kAA
i fr i qhr dfj yhusA dfj fdj i kgfj t I qhusA zAA
i k j czeqdj s fr i kykAA l nt hv I fx j [kokykAA
gfj frnugl dhlruqkzAA cgM t kshi kzzSA zAA
ft I qpsS j[kfc kkrkAA gfj j I qfrught kkrkAA
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I dkakud I j . khi kvvkAA gAA qAA 1/4 14623 1/2

I k j h l ar d l k n k esj dj dsdksl fruleqJ hdkgxq!
I fruleqJ hdkgxq!!
A j fu xxu uo [k / fg t k s lo: i hj fgv kshfj AA
Hfu eR jk dN dHsughxq vj t qqij r [; gfj AA

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J hxq vtž ns nəj kbzj h dkhd; g' kñ t knj xlgl s
vk kgld dhQk; kt ssckdle dj xh dj A vñ dñ kdj ds
Ja kdj k&

I ksfBegykyAA
i pñ i k' kgJ hxq vtž ns egj kt &
xgj i jspj uhykvkAA gj I fñ l gkz kvkAA
l ' kñ dkrR; Zv[kj h' j. kfr eaga 1/4hd". kußxtrk
I kjhmPjk. kdj rhij vtž dkl kdkj ux; kA vkj hHkd
J hd". kpazutnja d gmiinskñ k&
I ozlekRfj RT; ekedákj. kozA
vgakl oz kñ kskf ", kfe ek' kp%AA 1/4hk18@66½
er l kpdj rvi kdkj fdl hpt dkArvZj dh' j. kes M
t kxq dh' j. ki M k&
x#i jels#, dks k kAA
t ksrl dks ksj ok kAA 1/4hk&66½
tc; gxq dh' j. kij esqj dhdl knkj kvkt kkg&
x#i jels#, dks k kAA
tc xq dspj. kksd dkeLrd Nw, krks e>ksd ds k
j usokykRld ds j usokykRlogl gkrkdj usyx x; k&
ruefg eumkeu efg l kpkAA
I ks kpkfey l kps kpkAA 1/4hk&66½
; g' kñj] rue; ' kñj] l ' kñj] es d eu gseu esqg dñ
H kkgkgs vñ dksirkgdle] Oks yks elg] vgalkj i kp
fdkj ga' kñ] li' kñ: i]j l] xaki kp fo'k ga' l dy, ; g, dne
cjj hdle dj usokygkdgj 1/4lg~1/2ekbd sdj usokygkds
cjj ekkdj nssgj aq d vls bl ds vaj cMchelj hgsejknA

og dls gS dH & dHhcBk; geujskt [kq ghdj rkt lkgs] eu ea
 [kq ghcu k t lkgs] [kq fxj k t lkgs] dH hauy skgs lk
 b dkfny dj scuk Hhy skgs xj kHhy skgs og eujst dkvRZ
 vki t krusg] eu dkj kt A eujst dls dj rkgs rc j kt keu
 gskgs lk dkj kt gskgs lk j hauy skgs lk okeadj yks
 Bl ck gS; g dfBu gS j eujst o kdj ukcM tefydy gS
 b dhndlk k nksg] vki [kq l kpdj n] n] kdsfr ush
 egik kqg gntu ksh heu dsl fF, d ghck n] fu'dle deZ
 vks fu'dle l skA t ksh vki i bpd mBvksoska dhi bpd ea
 i gys ghvk xkfd eu dksl IQ dj A eu l IQ gskfu'dle deZ
 nsk kvlS fu'dle l sknaj kA ; fn vki l dle deZdj ksrksu k
 l bjk vki dkrSkj gskt kxvks t u&ej .keat kuki MIA vki
 plgsdN dj yksdgat dj yksdgat kdj n] kyka fruhnj
 vki dseu dkj kt gsmruhnj vki i j esqj dsl kkgafey
 l drA eujst vki t krusg] ksdj rkgs euA [kq ghfxuf; kfxuh
 t lkgs vki ghca kslr dj rkgs dbZ/krehdgrsft hefsku
 i hks dkcalslr dj fn kA vc b s gugai rkHbz fVdh
 mR fu] i kyuk y; dj usdk t kog bZoj gfrjssgk kear lk g
 pht uga Arwg dg&Hbz bZoj dhdi kI scMtvPNkgs; k vks
 bZoj dhdi kJ gshrkalle Bl j gskA ejsi k 1/42k dghrls
 easdgkrsdN uga easdg&lu i hks rgrks vi usvki dk
 i rkugahbzejkD kcuukgs rvtu i hks dkdgk st Eesjk
 gskt kxk uga; g vkhedhcofkeafai t Z vkt krgs Hhy wv
 tkhgs Hhy wvcaM leavkt khgs vki dksl rkgs Hbz gyls
 OOMXlo 1/2k RKA OOMd rj QgS, d cMxlo gS; g 1/4bz

cgyksf Nyst lē eaqv ksdkf [kR] l skdj rkfkxq j lenk
 dsl e; A fQ t c l dkt lē gakj m̄ i j , d i H̄o i M̄x; kA
 ebyeklakdkj k̄; RKA nt̄asnl suaj nj̄ 1/2fj k̄zukfn kxlp
 dkij rws tkwkskyklykodysdklskj dksA l j lsc 1/4s1/2ea
 ogxq ?j̄ l sgVx; kvks vi usykykodysdkpcnjkcukdj] NNA
 ysj̄ m̄ dhi tkdjsusyx x; ki j verl j eat lsgf̄e Rfkxq
 l kgc dkj pks si kr' kg dkj i kposi kr' kg usi jyk fd; kA i pe
 i kr' kg us lq fd; kgf̄ ejf̄ dki vldj usdkj i jkI alY fd; kA
 H̄oZ H̄krwkn d̄st k̄kfejdj] H̄oZ; g geusfejdj i jkdkj ukgs
 ; gkeskdl̄Z gakdj skj m̄ d̄l̄Z d̄l̄ule d̄segf̄e 1/4H̄o1/2 s
 t ks gklu dj skj m̄ d̄l̄ule d̄l̄ule d̄segf̄e 1/4H̄o1/2 s
 j lenk l j ksf̄ ukrAA l fkkmrj skl dekrAA1/4u&625/2

; g l c us fey&gj dj fd; k i j og 1/4posi kr' kg 1/2
 dgr & jkukt kgekj kl sd gsm̄ dscuk; g dle ugjacsxk m̄ s
 ykv A ogr kst oK RKA nt̄asnl sdklausdg&gearksirkugA og
 dgr sH̄oZ d̄sQV1/2eaBkgSpnjkcuk kgSNMgkfejdj
 ykykodyskj 1/2lsekurkgsmudki tklj hga ek kusm̄ dhqf̄k
 1/4e>1/2aQdNl y fn k̄ m̄ st kdj ykvks gyfQ og f [kx, A
 1/4q thusdgk m̄ us/kukugaysm̄ sek kustkfn kA ek kdk
 i H̄o m̄ i j i M̄oqkgS j vkl nksyks m̄ si dM̄k plj elj uk
 /dkA xl̄p dsyks rEga sdg sH̄oZ/ddkD kadj rsgks vkl l IQ
 dg nsksH̄oZ g gelj skj dkf̄ [kgf̄M̄k geusq d̄s k̄ ysj̄
 t kugf̄ oghck] m̄ usdg&f̄ksqvlakdkst kurkghugf̄e sks
 ykykodysdkH̄o grnt̄asnl dsl k̄koghdle fd; kA yksus
 bdVBsgksj dg&vkl H̄oZ g /dk 1/4ej nlr 1/2D kadj j gsgks

$\frac{1}{4}$ [k₁usdg $\frac{1}{2}$ g gelj sxq dkf [kg₁ xq vt₁ ns usgeH₁ k
 g₁ge y₁svk g₁; g gelj kvknehg₁ ukn[ky n₁ y₁ksus
 dg₁&fcYdg₁ Bl₁ g₁b₁xq dsdle ead₁b₁[ky u n₁ xq l o₁
 g₁ mudsalle eage n[ky u n₁ ost c yk rks ryq $\frac{1}{2}$ f; k₁rd
 i dN₁j yk A c₁teacB x,] m₁ usN₁ ugaN₁ t c vkl₁
 $\frac{1}{4}$ tr₁zavkx; k₁f₁ t₁ s₁ a₁ldj dgrk&[k₁ nksg₁
 osdrg₁ k₁ d ! dgrk&ejsl leusuDlkvkvx; k₁e₁ h₁nsq dk
 ff [k₁l₁] skdj rkfk&
 i fr₁ i kouafj fcj nd₁ nk bddry aughH₁sky₁A

$\frac{1}{4}$ uk864 $\frac{1}{2}$

v₁k₁dk₁ rkugai j m₁ dhl skdhgb₁g₁, b₁rk₁ugaxb₁g₁ t c
 m₁u₁asdg&rv₁j H₁ks₁A dgrk&ug₁A v₁k₁dk₁ rkghugah₁g₁ks
 H₁wx; k₁KA e₁s₁ crd xq dspj. k₁ij elrd ug₁j [k₁k₁ea₁ug₁a
 dg₁H₁t k₁A v₁k₁j hul₁kl smrj kA l k₁jsq dsf [k₁ k₁Asi j
 l cd₁ k₁kcj k₁j feyusugansk₁A m₁sr₁k₁d og pht fey xb₁j
 fi Nyst u₁le d₁j t g₁k₁ scN₁k₁A t c rd m₁usq vt₁ ns ds
 pj. k₁eaelrd ug₁>qk k₁d₁j [k₁k₁h₁kug₁A l cl svksn₁g₁,
 l k₁sj₁skn₁j $\frac{1}{2}$ dkdj m₁dscj k₁j g₁esj g₁A t c xq dspj. k₁ea
 elrd j [k₁di k₁V [k₁g x, A m₁u₁g₁xq l k₁gc usdg&vc crk₁
 dgrk₁fugly! es₁ H₁wx; k₁l₁H₁wxq dkspj. k₁l₁syxk kg₁og l f₁
 l g₁b₁l₁kv kAA i j esq dkl k₁krdk₁ g₁sk; kA m₁usq l skdh₁
 i pe i k₁kg ds₁fr t₁ks rdk₁ m₁k₁t₁src, lskofj ef₁j k₁
 l am₁dsx; kA t c gfj ef₁j l am₁dsj l c d₁Bl₁ g₁sk; krksq
 l k₁gc usdg₁ H₁b₁Zgyks₁ cl si gyl₁vkt k₁k₁ l k₁sg₁ku g₁sk,
 y₁slu; grksf NykdeZm₁dkfd; kg₁l₁k₁A t₁ksv k₁ksk₁hp₁zeadeZ

g\$ og t Yrh i jk g\$ t lk g\$HlkA b fy, xq l kgc usm s
dg&fcNk di Nj mti usfcNk fn lA xq l kgc usdg\$ elx D k
elxr kg\$ mti usdg&e\$dr &dr g\$; lk fugy g\$; lk vlk dhdl k
g\$A vlk usvaj cBdj egsi olkkdj fn lk mft; kykdj fn k
l lkA egsvc dksz+j r ughr". lkvfn fcydg\$ ugj g\$A dle]
Oks ylk elgj vgalk l lk spysx,] eujskt Hhejskudaj gA es
rls d l skdj usokvkvldk sd g\$&

l skdj r g\$ fugdlehAA

fr l dmgs i j k fr l qlehAA 1/4Uk&2861/2

l skdj usokysdkj j esqj feyrkg\$ fu'dle l skvls fu'dle
deZdsfcukfdl hdkeu vkt rd 'lkvugagqkvls f ej u ds
fcukfdl hdkszj ugafeykvkt rd&

fl ej fl ej ukeqkj acj AA

ukud t hv dkbgS v lk AA 1/4Uk&2951/2

vlk ; g crkvls t c v lk dkf ej u py t lk g\$HhfeuV&nks
feuV rc eujskt g\$kg\$ v lk dkfdl hdk eu dkj lt rks lk g\$
x; lk t c f ej u ds lk dhoR t lk v lk seu dgkj g\$ lk eu
dhr lk R kg\$ugj g\$A l R kr keu dh>Bn ghg\$ v lk j f ej u
b dkpy t lk A oska esj lk koska i <ej n\$kyA mta/k lk ea
; gdguki Nj fu/ lk udhi f i Do volRkdkule l elfkg\$

l qkvkefvkefu dlk lkHlmAA

vaj xfr r hjffkefy ukmAA 1/4Uk&41/2

; fn v lk usvi usvaj r lk v lk t lk ds vaj i fo krl lk v lk g\$
mti esluku dj ukgsseu dkLuku dj ukgsrkgs] foas v kfn
cij hl lklu dj lk fQ mtdschn Ja kdj lk fQ mtdkf u/ lk u

dj ~~la~~ t c v k d k s m i d k f u / k u i v ~~z~~ g s t k x k J a k v l S e u u g s
t k x k &

I fr I : i dj n s t f u e k f u v k A A

dj u dj k a u f r f u e y ~~w~~ N k f u v k A A 1/4 U K & 285 1/2

t c v k d k r n k f u p ; g s t k x k r c v k d l s o g i j e s o j v i u s
v k i ~~t~~ r g s x ; k l f V d k d U ~~v~~ k d k s i ~~t~~ r g s x ; k A b d f y , t c
v k d k f f e j u p y x ; k r k e u j k t g v t k x k A c k j h t k s d k e] O s k
v k n F ~~s~~ o s H h n j w p y s t k x k A b f n z k d k l a z k u g a j g a k f o d k k a d s
I k k b f n z k d k l a z k u g a j g a k f o " k k a d s k k v l S t c r j s k f f e j u
p y x ; k e u d k l a z k u g a j g a k k e u d k j k t r l s [k R e g s x ; k A
e u j k t d k v F ~~z~~ g e u d k j k t A v c v k i v i u s v k i l p s f o p k j k s
v i u s v a j] l p s f o p k j u s d h d k g v k d s v a j e u j k t p y r k g S
; k u g a v k B i g \ r k s t c e u j k t p y r k g S l s v k d k s f e y k D k
e u j k t i j e s o j v l S i v ~~z~~ x q d h d i k d s f u c a u g a d k j u k
f d l h d k g a j k A c d h r k s c k r a d g u s d h g A ; g g S k R ; Z v l y h d k A
; f n v k u s n j k e s e u ' k a k d j u k g S k f u ' d l e d e Z d j k f u ' d l e
I s k d j k A ; f n v k u s j e s o j d k s f e y u k g S k f e j u u N k s k &

f l e f j f l e f j u k e o p k j a c k j A A

u k u d t h v d k b g S k k j A A 1/4 U K & 295 1/2

t c ; g d k r g a ~~z~~ x q l k g c u s m i s d g & g e u s r q s d g k g f e k t k s
e k u k g f g e d g j g g A m i u s d g & e s k f u g k y g s x ; k A d g r s e k k]
i j k s d k j d s f y , e k k A m i u s d g & t h j g e k s ^{1/2} k p e ^{1/2} k u h n k S k S
^{1/2} 200 % g k R ^{1/2} h x g j k b ^{1/2} z i j g g y k s c m r a g v l S o g k i k u h d h
d e h g S x q l k g c d g r & Q y k r k y k c d h , d b ^{1/2} m B k n s k t k d j]
t y g h t y g s t k x k A o g r k y k c v c u k g g k g f y k s o g k t k s g p

I ~~l~~^l kg^{1/2} lej ^{1/2} ~~N~~^l lksugyls^l t k^l dj veld; kdl^l lku d^l rs
g^l og QOM^l xl^l p^l earkylc vH^l g^l t k^l dj n^l ky^l aghdle m^l us
ossgfd; k^l t k^l dj , d b^l m^l Bkn^l t y ght y g^l; k^l y^l H^l v^l S^l
i' k^l h^l i^l w^l g^l; A osdgr & H^l Zcgy^l lru^l m^l fd; kg^l og
dgr k^l uga! t k^l seq i j di k g^l g^l Seav^l ldkscrk ugal drk
eu^l dk^l lhdj d^l; gr^l seleyhckr g^l xqv^l lhdhl kg^l; gr^l skq
dk^l g^l seav^l l^l xq dk^l g^l elukg^l eqsugai rki kuhdg^l s
vk^l kg^l d^l k^l d^l f^l, H^l Zcgy^l c[' lk^l; kv^l c[' lk^l D k
x; k^l dg^l rd c[' lk^l; k^l

t c j lej k^l fnYyh^l; k^l m^l si j^l h^l r^l ldr] _ nf^l k^l & nf^l k^l n^l
cg^l; 1/2^l nf^l k^l & nf^l k^l m^l sfn[k^l Zck^l kg d^l v^l [k^l h
m^l us^l l^l s^l us^l dg^l & h^l; st k^l f^l [kg^l feVhebyeku dhi^l S^l
i b^l Zd^l fev^l * ; g^l xqv^l ausebyeku i j v^l fd; k g^l og
dgr k^l uga! feVhc^l Zku dhi^l S^l b^l Zd^l fev^l * , l^l sg^l c^l kg d^l
i rkr^l lk^l g^l m^l us^l c; gck d^l j^l og 1/2^l lej k^l 1/2^l Bck^l x; k^l
og^l feVhebyeku dhi^l g^l og dgr k^l feVhc^l Zku dhi^l A og
ck^l kg ds^l z^l o eav^l x; k^l; g^l t k^l dj i z^l o eav^l k^l t c; gck
xqv^l l^l s^l x^l b^l Zks^l s^l h^l; g^l rkyx x; k H^l Zeq^l l^l syr d^l
g^l; k^l ck^l g^l 1/2^l l^l s^l i j f^l [kg^l fr g^l d^l k^l k^l t k^l dj og^l f^l [k^l
dl^l k^l 1/2^l lej k^l us^l H^l Z g^l dg^l n^l eqs^l q^l l^l kg c[' kn^l A og
t c x,] os^l xq^l l^l kg c[' l^l g^l 1/2^l l^l g^l ft^l k^l dl^l m^l dke^l g^l 1/4^l h^l n^l lk^l 1/2^l
ogpykt k^l A geus^l k^l hmezm^l dke^l ug^l l^l A og xqxn^l hd^l
gdrl^l; Rki j j g^l; k^l og 1/2^l lej k^l 1/2^l kg^l est^l k^l spa^l Ppk^l kg^l* g^l
og^l krd x; k^l f^l ej^l v^l k^l kv^l f^l q^l m^l us^l k^l kg d^l dg^l & H^l Z
e^l k^l o e^l k^l 1/2^l fd^l k^l g^l; k^l e^l s^l gck > Bfudy x^l Z e^l z^l o ea

vlx; lA nli usdg&HbZdr ughpy rønsj knvnskjwlsrls
 ejsdøl o keauhA eñqseD rksnsugal drkA ij ekfz; k
 : gfu; r eæjski øskugaij nfu; kdj hrkejssik gø og nsj knw
 j lej k dlsfn lAtc og dcr gøkj lej k dsl KfHbZcgyksns
 i kss1/4S1/2 d HbZjpnk vls nlvjkHbZjpnk t c og 1/4lej k 1/2
 mnlk gkskrksdgrkfk eadlg<1/4lks1/2gks; lq xq ejkeg uga
 nþukplgrjçcn teqdy gks; lA dHbZdHbmyVhdkr dj rkfk
 rksks1/4gylksis kss1/2gh; g dgrs1/2ge dls& kxqvks sde gø
 t lsxqvksks1/2lji pykus/lks1/2gøsghgeavks1/2NylrsD kgs
 tc nl osi kr' kg 1/4hxq xlca f g t h1/2lps1/2kgc x,]j lej k
 uscN1/2 ask HbZa cl1/2vi usf [kaklsHbZkHbZ xq l kgc dls
 dg& d dj; og ejkeLrd vi uspj. ksl syxokyad ! fqj eñ
 dñl ughadgjA t c; gcr gøkjxq rksn osi kr' kg Rspgkrks1/2
 j lej k ij T; lq rks d fk; kugaksks1/2hugak t c; gcr xq
 l kgc dsny eavlkA 1/4lgr1/2gk; eqk1/4nl1/2ge l Sdj ust krs
 gø; gkvldj geljsik vktkvA og ulskij p<ej vka t c
 l jhl ar [kM1/2gk] lej k Hh[kM1/2gk] vldj nl osi kr' kg ds
 pj. kseelrd 1/4dk1/2fn lq nl osi kr' kg usdgk 1/4lej k xq*
 vls 1/2ar HrvntA D lq 1/4lej k dhl1/2ar usi kb dj yhfkj HbZ
 geusvi usxq dsfukfdl hdkn lq ughadj ukA os1/2q l kgc1/2
 dgrsoksdgk 1/2t ksj lq dgrs1/2t ksj vPNsplykus
 t krusg1/2moxq l kgc usdgk ykvks1/2lks1/2lks1/2t ksg1/2t
 osHbj. kseaxj i N1/2j lsi N1/2dgrs1/2t ksj vls
 HbZks1/2usdg&t c xq ghpj. kseaxj x; krks1/2vc ge D k
 dj & mu xq l kgc us gk lQghddkg&HbZ vlt cgyksnsi kss

g\$ld fy, c['ksq\$oj u] vki dks['kukugata nks[117]zgyls
dhi skdhgbZdgkrd i gph; gc['khkl skdki zki g\$, bsrks
ugac['ksx, A xq l kgc usdg fn k&ki cgyksdsq\$ cgyksds
dkj. kc['ksx,] cgyksdsdkj. kvki dks['kld fy, HkZ ft ruh
njs vki fu'dle l skj fu'dle deZuadlj kssvls euljkt ugaca
dj kssmruhnjs dle ugapyuka fu'dle deZujs fu'dle l skl s
eu 'kaygksgf ej u dsfukvki dkeuljkt dHhca ugajsk
; gvkds leusga vki ; gcrkvls tc vki dkeu f ej u ds kfk
fvdkgsgsrc euljkt gskgs og vls ghck gshgs bl fy,
tc ; g xq dspj . kseayx x; k bl dst ksl a Rk og l gkrkdj us
dkykgls; kA og dksq\$

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vki dsru ea, d fu#Dr eu gSt ksl aYi &odYi dj rkgs
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tc vki dsvaj t ksl gkrkdj usdkykvkRkj i j ekRkj psu]
nMj I Kkhog vki dks ttr gks; krks/vki m I Ppslpsu/2ds kfk
feydj I Ppsl@k d1/2ds kfkfey tkvksA dSsfey tkvks ykska
ea d dgor g\$hdZ ej eaus ksuJ kuo1999/2nf kpyrh
16yrh1/25Q ogfdl hrj Qfudyrhg\$ mudkty cudj nf; k
ea"kZgst k xhj nf; kdhQl yagst k xhj nf; kdhi kyukgs
tk xhA bl fy, 'kj hj ea, d eu g\$eu dkspykuskj eu dk
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vc xq i jssusgeskdsfy, pj . kseayxkfy; kA vi usl kkyxk
fy; k[er] sd cukfy; kA; gi pe i k' kgdgrspxq j lenk usgea
pj . k[er] syxkfy; kA yk vler [kj] i j Hhdgrspxq vc ge nj dj
I kgc dspj . kseayx x, ; k[er] i kBdj usyx x, Avc thge xq ds
pj . kseayx x, A; g, ksyxrkgSvHhyxsrsugadz l fruyx
x,] m fru ogl f[er] l gkz kov kA [kqghi k[er] g[er] kxkj rc cqg
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 fy; kugl og dgr kJfy; kR~~þ~~ NshmezR~~þ~~ Hlyx; kA easdg& fn
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 ld fy, og t~~þ~~ekgsq dkule] og ule&ulehdsl lk[kq ghfeyk
 n~~þ~~A og ule i ~~tr~~ gsd sutehdHhdgat lkugl avlk kugl og
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 ule l f~~þ~~ ft l dkeu~~þ~~efuv kAA
 ukud frufg fuj ~~þ~~u~~þ~~ kfuv kAA 1/4 W & 28 1/2
 uled~~þ~~hl kefu u cl kov kAA
 N~~þ~~vt kfg okgvpr gykov kAA 1/4 W & 7 1/2
 og i nk~~þ~~ztskrusN~~þ~~aj tlukgsml dsl lkrlsrjskfp~~þ~~kt lk
 g~~þ~~kgS l~~þ~~s t lkule dsl lk~~þ~~ i gysnqlunkj hghxyr g~~þ~~, d
 vokn~~þ~~kejss lkA geasgylkj ysx, i kB~~þ~~ds~~þ~~1/2 A eqs rk
 lkHbz g Klhl ldr ugai <kgqk dlsT; lkugai <kgqk eqs
 ; g lkHbzdgad sMsl ukna mtl dkLo lkdg nsk lkA mtl us
 tc fu kZ fd; kJ og dgr & vldksKuhdkrksfcfLeYyk1/4qv k~~þ~~gh
 xyr g~~þ~~vk~~þ~~D kdj sk og aplj klyl x; kA vc vlk ; scr lk~~þ~~og
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t ki nk^z k u sNk^z l j t k u s plg se qdy l sNk^z plgsf l kc
 l sNk^z A ; fn ogeKlu gsk; krki gysghNk^z g^z i gysghNk^z
 x, A ; fn Klu i nk^z g^z krks g Nk^z usg^z s og rks/k dhol k uk ;
 Nk^z shugav k d^z&
 okl ukc/kv los k AA 1/4uk&136 1/2
 Hk^z lfc dgr^z okl ukl sc/k rkst ho vkrkgsv/s t rkgs
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 ogrksOkid g^z t c vki dkeu ule ds kkt Nk^z; krksOkid
 ds kkt Nk^z; k^z og l f^z l g^z b^z kov kAA ; g^z dgrs^z ou dks^z/d^z
 ysk&
 tg t k^z gkl g^z AA
 vc t gkt k^z g^z l [hgkssg^z clj hn[kdle] Ok^z yk^z elg]
 vgalj^z vkn gV x, v^z clj heuljkt HhgV x; kA ; ghcn^z
 nskyspi dsk^z vc t gkt k^z g^z l vc dks^z h^z k^z h^z t xg
 ug^z ghg&
 dfj fdj i ki Hk^z g^z AA qAA
 i Hk^z j esqj usdi kdjh i Hk^z usdi kdj dsgea[k^z feykfy; kA
 feykusokydk^z skg&
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 ?k^z ?qk^z r l qe-kfopk^z st Sefy daq Nk^z kAA 1/4uk&964 1/2
 ; gi pe i k' kg dk' kcn g^z m^z usdg^z g^z si j esqj ! rjsst Sk
 dks^z uga^z frveqs/PNkyx x; k^z i Hr gsk; kgsj &

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e\$J hxq j lenk l shcfygj t kkgAmudstheSpj . kse
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dscM 14uk&964½ dksu fey k egns ¼hxq vt ū ns thdsnly 14uk&964½
dksu fey x; k b\$g 14hxq vt ū ns dksdlsfey x; k di kdh
bzj usfeykf; kA bzj di kdj ds/i us kkt h dksfeyky sk
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gs 14uk&964½ vki gf dskqxxk kdj kA gsj 14uk&964½ gelj shka k\$ xq
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g& t ksvk dhaqfkesBkpsu] m sof KB 14uk&289½ dgskt h
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t h o g p o s u] o g h b Z o j g f o g h a z e g f o s u r k u g a n y k o f v k i d h
c o f k c n y h g a v k i d h c q f k d k v l p k 1 1/4 & 1 1/2 g h B d l u g a g f v k i d h
c o f k u l e d s k f k u g l a t 1 1/4 &

u k j k a k i k k v k k j k A A

u j k k v k k l k j v f k K B u] v k j k j { l d &

j k k k, d a g e j k l u k e h A A l x y ? M k d k v a j t k e h A A

1 1/4 U & 1 1/2

m i d s u l e d k e q s d v k j k o f x q v t Z n s t h d g r \$ v c e q s
, d u k j k . k d s u l e d k g h v k j k g &

v t k e y q k i h t x q t k u s u e [k e k f g f u l r k j k A A 1 1/4 U & 6 3/2 &

v t k e y u s u k j k . k g h t i k R A o g l a] u k j k . k g h l k n s l j x ; k
R k A u k j k . k d s X k j g 1 1 1/2 v R Z f d , g q g a u k j k . k & u j k d k
v k . k u j k d k v k k j k t h o k d k v k k j k t h o k d k j { l d v k f n X k j g
v R Z f d ; g m i s e > l d j p y s x , A m i u s u k j k . k u g a n k A &

d m u d k s d y a l q f g v k j k e u k e g y s g h A A

i f r i f o r H k j k e o g r g h A A 1 1/4 U & 7 1/2

e q s s c r k v k s & u k e t i u s o k y s d l s x q e a k t i u s o k y s d l s d y a
f d l s g &

d m u d k s d y a l q f g v k j k e u k e g y s g h A A 1 1/4 U & 7 1/2

c r k v k s u l e n s d g r k & f d l h i j v k t r d] i j e s q j d k u l e t i u s
d y s i j d y a l j g k g A b f y , t c r d v k [k q i j e s q j d s u l e d l s
u g a t i k s \$ u g a f f e j u d j k s x q k u g a k v k s s k v k d k d k Z f n k
1 1/4 U & 7 1/2 g a f k A f f e j u v k d k s o k i g p k x k &

g e l a t u k j s k j k A A

x q v t Z n s t h d g r \$ g e k s x q j l e n k l k f g c l a g a j s k j k

*ky; kū vlk j k e~~s~~ xq j lenk d^{spj}. k~~ad~~ h^{ky}; kū vlk j k
fy; kA; g~~dl~~ s dgr kg~~S~~ xq vt~~z~~ ns t hdgr~~g~~ ; g mudk' kn
g&*

*i frr i q~~h~~ dfj y~~h~~ AA
i frr k~~ad~~ k~~si~~ fo~~k~~ dj nshg~~S~~ a d^{spj}. k~~ad~~ h^{ky} A fo~~k~~ kp~~a~~ d~~ls~~
N~~l~~ w~~seg~~ Re~~cuk~~ fn ktc xq vt~~z~~ ns t hdhpj . k^{ky} yx~~A~~
bd fy, i frr k~~ad~~ k~~si~~ fo~~k~~ dj usdky^k, d i j e^{sgj} dk ule ghg~~S~~
vt ley d^s k t c ; ex. kvk r^{ks} lex. k^h hvkx,] og^fy[k^{kg}~~S~~
m^t usdg~~k~~ v^k D k^{av} g^{sl} ; gr^{ks} k^h hg~~S~~ og 1/4 lex. k^h i N^r \$
dgr kD kg~~S~~ 1/4 ex. k^h dgr^g u^j k. k^h u^j k. k^h u^j k. kdgr kg~~S~~
1/4 lex. k^h dgr^g d^{ls} 1/2 i usdky^k k^h hg~~k~~ v^k rd\
dmu dk^{dy} al^j fgv k^h le u^{eg} s ghAA
i frr i for H^h j k^{ed} gr ghAA 1/4 u^l & 7 1/2
; gr^{ks} d c^j eu t k^{sl} j le dg r^{ks} k^{si} frr I si fo^{kg} st k^{rk}
g^{sl} bd fy, &
, d fpR ft g^{bd} fNu f^k v^k kmAA
dky Okf d^{sc} h^p ukv^k mAA 1/4 e x^{sl} 1/2
og^j lex. kvkx, AfQ^j og, d&
vt ley q^j k ht x^q kusue[ke^k fg ful r^{jk} kAA 1/4 u^l & 6 3/2
fQ^j , d fue[k 1/4 d c^j i yda>i dusfr ukl e; 1/2 e^m dk
ful r^{jk} k 1/4 m^{jk} 1/2 g^{ls} x; kA , d b^z j nk f^{sl} a] j gr s^{fl} spu^{lc}
1/4 j ; k^h d^{ls} d^u j se^{sl} hogkx; kA db^z l^{nf}e; k^o k^{sf} da^q j a^q j us
dhc^h v^k kr g^{shg} s db^z l^{ks} aus/ldj ' k^{ak} d^h t h^l og i j e^{sgj}
t k^{sl} k^h m^t sekur sg^{sl} ok g^{sl} bd 1/4 t ley 1/4 usvi usi dk ule
u^j k. kf^j; k^h j og 1/4 e^{sgj} 1/2 kvkx; k^h osdgr^g m^t dk fne^{lk}*

fgy x; kg~~sk~~ b~~z~~j dkfnekx fgy x; kg~~sk~~ b~~z~~j nk thdgr~~A~~ og
 t~~ks~~~~os~~ osdg~~&~~ h~~t~~; grk~~ck~~ gsug~~al~~ drhfd b~~z~~j dkfnekx
 fgy t~~k~~] rc $\frac{1}{4}$ a $\frac{1}{2}$ dr~~&~~ k dsfnekx es~~Q~~Z/kx; kg~~sk~~ t c og
 l~~dk~~ ~~rk~~ og rks vi usy ~~M~~ s~~dk~~ c~~g~~ k~~g~~ lsog D k~~a~~/kx; k~~l~~ og rks
 l~~dk~~ ~~rk~~ $\frac{1}{4}$ a $\frac{1}{2}$ dr~~&~~fnekx fgy x; kg~~sk~~A mudklo~~h~~ o~~c~~ ~~N~~ r~~h~~lk
~~rk~~ f~~q~~ l~~j~~ spiqdj x, A d fy,] ogva; ~~kg~~ c dkj k~~l~~kg~~&~~
 j k~~l~~kk, d~~g~~e~~lj~~ k~~l~~ q~~le~~hAA
 I xy ?Mdkvaj t~~le~~hAA $\frac{1}{4}$ uk&1136 $\frac{1}{2}$
 d fy, og i j e~~sj~~ cf' k~~g~~s~~j~~ v~~k~~dk~~O~~ ~~Z~~ u~~e~~ ds k~~kv~~i us
 eu d~~ks~~ k~~l~~ ~~Y~~ k~~l~~ j v~~k~~dk~~t~~ k~~u~~le g~~g~~og r~~ks~~dl hdk~~t~~ + j j [k
 g~~sk~~A ft l fnu v~~k~~ust l~~uk~~ $\frac{1}{4}$ j u~~g~~ ~~g~~r~~k~~u~~g~~av~~k~~ d~~ks~~fey~~s~~ lk nu
 fey~~A~~ d fy, og v~~k~~d~~ks~~ j~~l~~ ~~Q~~ k~~rc~~ dj ~~sk~~ vxj u~~e~~ ds k~~ke~~u
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 I k~~fp~~ uk~~e~~ ej~~ke~~u~~g~~y k~~l~~kAA
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 t c og Q~~lj~~ v~~k~~ k~~l~~ m~~l~~ usdg~~&~~ h; g D k~~l~~ v~~k~~ dgrsD k~~gs~~
 v~~ks~~; g~~ks~~ & ht xg~~g~~osdg~~&~~
 y~~ks~~u fl mejsk~~B~~ Bk~~ck~~xkAA $\frac{1}{4}$ uk&334 $\frac{1}{2}$
 dgr~~geus~~; g~~l~~, d l j k~~l~~ c~~uk~~ g~~g~~m~~l~~ e~~af~~ f~~lj~~ c~~uk~~
 g~~l~~m~~l~~ eadln~~l~~ g~~g~~kdj k~~l~~A Q~~lj~~ ck ; g g~~g~~ge i j k~~sd~~lj dsfy,
 dj r~~g~~g~~el~~ j keu ogk $\frac{1}{4}$ le l ~~g~~ ~~g~~g~~g~~kg~~&~~
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 I P~~ps~~u le d~~sl~~ k~~ke~~u t~~l~~ ~~l~~ l~~j~~ hn~~u~~ k~~ds~~le dj usg~~g~~dk~~z~~

i fr² ad 1/4 dloV¹ u² g³ skA vxj vki n⁴ keat b⁵, rks Ppk
ule vki ds⁶ k⁷ l⁸ spykt k⁹ xlA pfy, &

dfj fdj i kgfj t l qhusA

i j esq uscMdi kd¹⁰ xq vt¹¹ ns dgr¹² geadi kdj dskq
j lenk ns¹³ k gfj ; ' k nsf¹⁴ k¹⁵ xq dk ule nsf¹⁶ kA vc ge
i j esq dk; ' k¹⁷ x¹⁸ k¹⁹ l²⁰ rs²¹

i k²² czeadj si fr i kykAA

dgr²³ th! vki dkca²⁴ slr dls dj rkgs dgr²⁵ k²⁶ cze gelj h
i fr i kyukdj rkgsA vc gelj k²⁷ k²⁸, d ghg²⁹ &

vul³⁰ k³¹ plt; lk³² k³³ st uk³⁴; nk r³⁵ A

r³⁶ kafur k³⁷ k³⁸ l³⁹ k⁴⁰ k⁴¹ {k⁴² aogkE geAA 1/4 uk 9@22 1/2

J hd". kdgr⁴³ & ksd⁴⁴ dj rkgs⁴⁵ weadj rkgs⁴⁶ Arwul⁴⁷ fpau
1/4 xk⁴⁸ k⁴⁹ hif ej u⁵⁰ u NksA ns⁵¹ vxj r⁵² u u fpau NksA ns⁵³ krks
es⁵⁴ k⁵⁵ rjsdk ft Ees⁵⁶ ugh⁵⁷ og dgr⁵⁸ k⁵⁹ cze gelj h[ldyh
dj rkgs⁶⁰ i k⁶¹ cze gelj kca⁶² slr dj rkgs⁶³ xq vt⁶⁴ ns dgr⁶⁵ A vc
rkgs⁶⁶ k⁶⁷ k⁶⁸ ca⁶⁹ slr dj usd⁷⁰ kyki k⁷¹ cze i j esq g⁷² og xq
j lenk dhdi k⁷³ sgea⁷⁴ tr gqkg⁷⁵

I nt h⁷⁶ l⁷⁷ fr j [ldyh kAA

og l nk t⁷⁸ dk j [ldyh g⁷⁹ dHh x⁸⁰ gkt j+ rks g⁸¹ g⁸² k⁸³ u⁸⁴
x⁸⁵ gkt j+ rks v k⁸⁶ dseu us⁸⁷ g⁸⁸ v k⁸⁹ Rekrksfur g⁹⁰ R g⁹¹ o k⁹²
g⁹³ g⁹⁴ rks k⁹⁵ hgs v k⁹⁶ dseu d⁹⁷ og rks k⁹⁸ [kgs⁹⁹ og dHh x¹⁰⁰ gkt j+
g¹⁰¹ g¹⁰² g¹⁰³ k¹⁰⁴ g¹⁰⁵ k¹⁰⁶ k¹⁰⁷ og rks k¹⁰⁸ us¹⁰⁹ t kus¹¹⁰ k¹¹¹ usd¹¹²
g¹¹³ g¹¹⁴ g¹¹⁵ k¹¹⁶ g¹¹⁷ rks g¹¹⁸ d¹¹⁹ k¹²⁰ &

ukud l¹²¹ k¹²² ut k¹²³ kkrjs¹²⁴ A 1/4 uk 85 20 1/2

xq l¹²⁵ k¹²⁶ g¹²⁷ dgr¹²⁸ si rku¹²⁹ g¹³⁰ yx¹³¹ v Hh l¹³² k¹³³ ugdd si tr g¹³⁴ A vc

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 gfj fnugj su dljr uqkbaZSA
 dgr\$vc dj sD k dgr\$ j k f&fnu m i j esqj dkdlm xkj
 fl ej u dj s xdkxk A ; g fnu& kr xdkxk usdhi Ddhck g fdli h
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 dg&ddh 1/15 dgt k x\$ og yksa us i ukrj lalkudky fy; k
 ; g nfu k usfudkyk gS 1/4 p usdk 1/2 rj lalkA dksZHn nfu k dk
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 j k f&fnu i j esqj dksHh uku g adHk&
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 HlukwksdHh r q s d k k z k u g a y x s k A ; fn r j s s d k [k e g s x ,]

fj D k dj lkA rc r̄si k ugrayxslA fuk vi usi fr vls
ij esq dscukfll hdsi twukugj hhi j dg u dj ukriA
ld fy, ij esq dsi Ysl syxu k i j esq l sxsgkt jt u gskrjw
mit hdkua l a dgrA og cNl Pk& lkA 1/4Q1/2/knehRk
mtkrs^ofR i lkj * Hhi <kqjkRk&
ft l qnsS j[kfc/kkrkAA
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gfj j l qfrught krkAA
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l svi usta i dhi lk gsk k xhl sv k dks lk j l i lk gsk&
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vc gelj kt le&ej . kdVx; lk dkszjgk kt le&ej . kugak kAA
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12

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r\xA9sghgfj cl sfuj afj ?\xA9gh[k\xA9g d\xA9h k\xA9AA qAA
ckgfj H\xA9t f\xA9 , dkst kugdpgqj\xA9 fxv kucr k\xA9AA
tu ukud fcuoyk kphu\xA9e VS\xA9 He dhd k\xA9AA zAA qAA

14/1684 1/2

I k\xA9hl \x96r di k\xA9 n k\xA9 esj dj dscksl fruleqJ hdk\xA9gxq !
I fruleqJ hdk\xA9gxq !
ul\xA9ai k' kkg J hxq rx cgnqj egj kt nqj kb\xA9oj h\xA9 ok\xA9hdk
' kn v k\xA9g ; go\xA9S dk' kn g\xA9 o\xA9S dsckn e\xA9klu v k\xA9k\xA9S
; g\xA9f u e g\xA9 dA t c rd o\xA9S ug\xA9src rd Klu ugai \x96r g\xA9k\xA9
ukfdl hdk\xA9gk\xA9ukg A yk\xA9 Klur kyskplgr s\xA9j &
I rd ak\xA9skp b v k\xA9 edj fp I aur s\xA9g\xA9e agy b\xA9A 14/1682 1/2
budksfey\xA9k&
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 i g~~M~~ j grk~~R~~ e~~g~~hag~~p~~kykx; k~~A~~ osdgr~~t~~ h~~j~~ l a dhdfy, k
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 dg&t ksck m~~t~~ ds~~i~~ k~~j~~ g~~S~~aghns~~H~~ A vxj muds~~i~~ k~~j~~ l R g~~s~~k
 rk~~s~~ R nsns~~A~~ b fy, t c l g~~s~~sm~~B~~ kpht g~~j~~ og dgrk&rhu
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 t ds b7eakksA kksNkydj tc l b7ekpsgskksk kkgudt kck
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 vlddkLqj k1/2k ky dkmBkVpsuds kfk, d gks; k vli l b7j
 dksNksA t kvsA vc vli ; g crkvl&t ksvli dsvvaj dYi ukgsn
 gsmi esdksZ Ro Hkgdskgs l b7j ghgdkgs l b7j rksBkgsA
 vc vli b dsl kfkCkgs 1/2kgs 1/2ksugax, l b7j dsl kfk ; k
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tksks ljsogi j esqj dhmavkt j kxhus lskl ej dskgavlk
l qrsft lqsls qkgsYdg cqg vPNkckgslb fy, vlk tc
rd b 1psudhxt xgoR dksugayst kvksr rd vlk dkosA
i k ugdslA bl fy, i k lqslcpglkskgslb fd slgrsgt lks
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vk l og ?j eslh, lskghR ge t kursta edneskt vls cna
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fokukua vlt ugdsl dgrk&thdgsusyk d j gkghugA
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dgkvc e~~as~~fu e $\frac{1}{4}$ z $\frac{1}{2}$ dj fy; lk vc uga~~A~~ m~~u~~asdg&r w
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 vkuA , b~~su~~krw~~k~~ kdj ; gA l~~d~~ fy, th~~o~~ ds~~v~~aj dYi ukgsog
 dls dj rkgs eu dj rkgs ; g vki dks i rkgs dYi ukgeskeu
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 og vut~~b~~hok lk, b~~h~~g~~s~~t l dhvDy ea~~k~~t lk] m~~l~~ d~~k~~nl~~y~~ht xg
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 osdgr&t h d dkr dk D kirk mtkas1/4q l kgc us
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 Bl gk; grthj kvks vluks og dgk l svluks os1/4q l kgc1/2
 dgr&gelj si Hns1/4n es1/2ft uks vluks ft udh1/4g2 g t xgA
 esvki dksnenekl kgc dhl k khl qk kqA veqkj gkqAt c xq
 l kgc uksai k' kg nenekl kgc x,] Mykvks eYyknkHkzT
 mudkt ksfr rkRk mudkf k; gks; kuksai k' kg dka og t c

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 xq l kgc dgr&uk; gkukfcNlA dgr&uk; ogkfcNk 1/4phxt xg
 i j 1/4 u[6] osi kr' kg tgkcsag xqndj kuhpt xg gaMysdk
 fi rk1/2dgr&ekÅphxt xg fcNrkgaVdgr&uk; ; gkcsusokysus
 vlkukga ; g geljht xg ugjgeljht xg og ga mti usplj i kbz
 fcNlkbtgkmtasdgkA ogkultsai kr' kg dkxqndj kga t c
 nl e i kr' kg x, Mysdsi k[6] nle i kr' kg usi gysueldj dh
 ogk tgkultsai kr' kg thcB[6] 1/4 osi kr' kg 1/2yNzdkl lk
 dej dU k[6] dj 1/4phxt xg 1/2B[6] dgr&vc ugageusd[6]
 dj ukga oglal lk hqokkhmPplj hgscBdj A l lk gkhxq xk
 l kgc ogk Pplj kga mti 1/4xg 1/2dkule r[r l kgc ga vlk us
 nkgs[6] vc rkscq vPNkcu x; kA mu egka q"ksdks rkgsk
 g&H[6]yH[6];] or[6]ku dkmtb[6] rkgskga bl fy, xq l kgc dks
 irkRkbl dk dka mtkasdgk & vls] rhlj ki skgs[6] geljs
 1/4azk1/4 svlkukga geljs lk l hkl azkHhmt dkgs[6] mtkas
 rhlj ki skdj ukga bl fy, tks v[6] q"kgsspos ok i q"kgss
 ga mtkas[6] osi kr' kg us[6]i uk' lkj vlk l c dks rkgst kj
 fnYyhefn lk i j /eZdkrks gj knsfn kA ; g mudhokhgsvc
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dkgj scu [k\$u t kbzA
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 l rd ak[6]kpbv/k/j edj fp l aur sgoegayb[6]A 1/4u1/2822/2
 vlk l p dgs[6] vlk dks lk g[6]kplghxdk ; svHhejsv/kssck
 g[6]easdgk&fnek og D kxlp gSogk og dgr&k gMeagS
 1/4u1/2Eku1/2ogktukga efsdgk&elj fy; kt :+j rkauA j kshrk

fey ght kuh^{AA} l alk^{AA} buea^{AA} S^{AA} n^{AA}; kf^{AA} h^{AA} culukr^{AA} st kur h
 g^{AA} segi q["]kcukukdls^{AA} zugat kur k^A e^{AA} og dgrkt h^{&eqs}
 l k^{AA} opukyl^A eg^{AA} q["]kdgr[&] ukH^{AA} H^{AA} osdi N^{AA} ge fdl hdksuga^{AA}
 ns^A; g^{AA} l ky nsl ky j gl r^{AA} s^{AA} f^{AA} r^{AA} jsk^{AA} g^{AA} x^{AA} n^{AA} f^{AA} ky^{AA}
 o^{AA} rksn^A i k l s d l a dgrk^{AA} ld hxlp dk^{AA} kxylhj d^{AA}
 fdl hdki 'k^{AA} lscuu^{AA} ghg^{AA} vi ukcukyl^{AA} c^{AA} ge. kdlscN^{AA} n^{AA}
 yxl^A og f^{AA}, d rj Qnjwys^{AA} skg^{AA} og ejss^{AA} k v^A k^A e^{AA} s^{AA} dg^{AA} & w
 d^{AA} l v^A x^A; kg^{AA} og dgrk[&] g rks^A 'k^{AA} lscuu^{AA} ghg^{AA} vi ukghcuk
 yl^A vc y^{AA} skausf^{AA} h^{AA} hrksbruscuk f^{AA} A vxj b^{AA} d^{AA} lks^{AA} n^{AA} us
 olykg^{AA} H^{AA} D kbrusf^{AA} h^{AA} cul^{AA} t k^{AA} g^{AA} f^{AA} Nysf^{AA} h^{AA}; kausks
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 g^{AA}; g fd/ k^{AA} dhck^{AA} g^{AA} b^{AA} lks^{AA} k^A d^{AA} lks^{AA} b^{AA} lks^{AA} k^A x^{AA}
 f^{AA} [kv]^{AA} vi usi k l sdq^{AA} h^{AA} dj dsj k^{AA} f^{AA} [kv] d^{AA} f^{AA} [kv]; s
 n^{AA}; kdkH^{AA} krksdj A vc f^{AA} h^{AA} hgsj l^{AA} hmezelks^{AA} g^{AA}, ts
 v^A v^{AA} u^{AA} dj y^{AA} l^{AA} p^{AA} gt k^{AA} n^{AA} gt k^{AA} D kQk nk^{AA} v^A n^{AA} skds
 H^{AA} g^{AA} kug^{AA} v^A usntkdls^{AA} pkm^{AA} B^{AA} ug^{AA} k^{AA} psfxj k^{AA} ug^{AA}
 ld fy, xq l k^{AA} g^{AA} us^{AA} dg^{AA} & g ou g^{AA} fd ug^{AA} lk^{AA} ld s^{AA} k^{AA} r^{AA} g^{AA}
 v^A dkeuAv^{AA} l p d^{AA} lk^{AA} d^{AA} T; lnk[k^{AA} r^{AA} g^{AA} kule d^{AA} lk^{AA}
 T; lnkt^{AA} k^{AA} g^{AA} euA ft l fnu ule d^{AA} lk^{AA} lk^{AA}; k^{AA} n^{AA} fnu v^A lk^{AA}
 ug^{AA} lk^{AA} A og r^{AA} f^{AA} fork crkx; k^{AA}
 l kphi h^{AA} ge r^{AA} fl mt k^{AA}
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t ksl jkst ksl, d nkckgj2m stlyukugadHIA mti stlydj
dHhdksZdle Hhugadj uA, d l a gq gqgkA kusikdLrku1/2
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dks kazugakS og rjs kvi ukv k ugakS fQj rwkaj esD ka
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vk̥ i̥t̥r̥ g̥st̥ k̥x̥k̥&
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m̄l ty dlsvk fxi kn̄si frfca ugaj grkA vxj l nkgskrks
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vkl dhHfr glxbzj lkj esayvhreksqkdj dsog vkl dhHfr
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nbsk hgs ; g ugahs1/2efkdkghnHfr vkl & k HhnfksA og
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v~~l~~] m~~l~~ sQk d u i gpk~~g~~&

ekbvkdkegr kt d~~g~~lbv kAA

ek kdhykl keq lskQ x; &
 I gl [kvly [kdmnfB AksA
 fki fr u vloSebkvki kns kosa
 ; grksvB i g ek kdsi hns Hkrkj grkgSj jesj dkd ea
 D kdl jwga i jesj rksn kyqSdi kyqSm dks[ksdj m ea
 flkr gskvA oggSd] oggSf i vZogvk dkv kRekgSusa
 i k' kg dgr &
 clgfj Hkrfj , dkst kugq
 tksv k dshkrj gfd ugaoff dksnHkrj vki dseu&off dks
 nHkrj clgj Hhoghq &
 vafj cl sckgfj Hhv kghAA
 ukud njl uqf k HkelghAA
 og nkugq d g &
 fuj xq vkf l j xqd Hhv kghAA
 dyk/kf ft fu l xyheghAA
 RksA kdk jd apf kdj dsnHkuA tksv k dhapf keacBkgS
 I xekrksuavxj I xekgsv k dksnHkuktk ! tgkrd I xek
 tk xek ogkrd feF k u Hhl kkt k xl &
 fnz fveku g\$ xy feFkskAA
 ; gnt; elu 1f[kkskskyk ljkfeF kga tksv k dkfuxekgS
 og vki dksnHkgs/kt rd\ agrksruksqdkntrMkgSog rhks
 xekdks kkrksleykgqkg &
 jt xkre xekl r xkdgqvSg r jshl Hkelbv kAA
 ek krk ekkr gksbz gk &

pmfks n dmt ks# phuS f u g h i j e i n j k b v k AA

1/4 W&1123 1/2

og rkplks gog rks v k dkvi ukvk g vi ukvk Hhdguk
ugacurkg s l e >ku dsy, dgukcurkg s vi ukvk &
bgqj q fxv ku cr k b AA

; g gesaq ukud usklu cr k k f k xq ulsai k' kg dgr A ; g
xq x k l k f c escr kx, A ; g Klu xq ukud l sgeafeyk f t k
ulsai k' kg dgr & ge v k dkcr k s A ; g gek s xq gear kx, g f
; g Klu g f og Vafj cl scqfj Hhv ksh g fuj xqq kf i j xqq
Hhv ksh g f gl j k m l hdkgch &

cze fxvkuhdm[k f g e g s j p AA

ukud cze fxvkuhvkf i j e l s j p AA

cze fxvkuhdkl xy vdk#AA

cze fxvkuhvkf fuj alk#AA

1/4 W&273 1/2

og fuj kdl j g psuA v k dkvi ukvk og g f u g
t u ukud fcuayki kphuS

ft ruhnjs v k m l dhi goku ugadj k \$ phur pl fuj t u ugja
yxk v k s m ruhnjs v k d k m l dhck ugafeyk f v k dkvgalj njw
ugadj k &

t u ukud fcuayki kphuS e vsu He dhdk b AA

og Hk e adhd k b 1/4 s k y] e s 1/4 k s v k d sv aj yxhgqz f u g
og feVshuga ft ruhnjs d k b d k s n j w u gadj k \$ t y ugafn[k k
v l y hr k t y g f og d k b c feVsh &

t u ukud fcuayki kphuS

ft ruhnjs] xq ulsai k' kg dgr & v k vi ukvk i goku ugja

ys&

feVSu H^z dhdkb^zA
vk dkH^z uga feV^zk&
clgfj H^zfj , dks kugdpqj fxvkuqf rkb^zA
tu ukud fcuoyki kphu feVSu H^z dhdkb^zA
; g dkr e^zsdguhugafkvkt gj dj dghg^z og t kxqnejk ka
dys^zD kugabudkca^zlr dj rs^zxj hc cPpkd^zbudsi <ks
dk budsj kusdkA : i ; sbdV^zdj dst ksb^zki j yxlusg^zbu i j
D kugayxr^z ft rusvk : i ; sbdV^zdj rs^zsvk usksj hc^zki j
: i ; syxlusg^zsvk rks^zki j ghyxk t ksg^zA
dks fruledj holgxq !



I vlej I frxq i lknAA

13

I ksfBegykAA
rud au dk/kud au dkeud au dkdhv kAA
I a i lknfj ukef/kv kvl j c dbq rc Rkv kAA qAA
I au fcuqo: unk kchv kAA
t kst k\$ j f. ki j \$ kkdhl k\$ k xj lehdhv kAA j gkmAA
dk\$ i j kkfeVfg t ul skgfj dljrugjf xkzSA
b\$kl b\$y k\$ekÅty t udkl a\$opNkxhi k\$zSA zAA
j l uk, d vus xki ju t u dhdsd m\$ekdghv \$A
vxe vxk\$ j n vfcuk hl j f. kl au dhyghv \$A zAA
fuj xq upo vukkvij kkhv k\$ l au dhv ghv kAA
cm\$ ek\$fxq v\$akdi\$efgukud y\$dfuckgAA gAA gAA

14.11.610/2

I k\$hl ar di k\$ n k\$ esj dj dscksl fruleqJ hdkgxq !
I fruleqJ hdkgxq !!
i pe i k'kgJ hxq vt\$ns egjk vi uh \$ crksa a
; gkxq j lenk egjk ga m\$ l a dsge pj . ksead x, AJ h

xq j lenk thdky{; dj dskr dgrs~~s~~^g dgrs~~s~~^g vi ukru] eu]
ku l c geusvi Zkdj fn kxq j lenk d~~sp~~j . kse~~a~~ mul sgea s
Qy i ~~tr~~ g~~k~~A t c vkehb~~Z~~j d~~k~~l c d~~q~~ vi Zkdj n~~sm~~ dk
vk~~l~~ 1/4galj 1/4ugaj g t k~~k~~l ag' k~~k~~g~~st~~ k~~k~~g~~s~~ og l k~~h~~m~~lk~~/k
rknsn~~t~~A b~~f~~ fy, r~~k~~l e>n~~j~~ y~~k~~ dgrs~~s~~~~h~~~~b~~ eu v~~k~~~~s~~ /ku l c
vi Zkdj n~~l~~ eu g~~h~~m~~lk~~/kdkdlj. k~~g~~s l~~j~~ k~~a~~ t c vk~~l~~ vi ukeu
b~~Z~~j d~~k~~svi Zkdj n~~l~~~~s~~~~n~~~~s~~~~o~~ p~~o~~ n~~l~~~~s~~~~o~~ v~~k~~ds~~v~~aj f~~d~~l h
fd~~l~~e 1/4j g/2dkfodk~~j~~ ugaj g~~k~~ D k~~l~~ l~~j~~ k~~l~~ leku eu eags/1/5
eu v~~k~~usvi Zkdj fn k~~l~~b~~Z~~j d~~s~~~~v~~~~k~~seu d~~k~~dk~~b~~~~Z~~akug~~p~~yrkA
b~~f~~ fy, &

ru&eu&ku H~~l~~ m~~f~~ x~~q~~dm~~g~~fe e~~fu~~v \$ k~~Z~~~~S~~A

1/4uk&918/2

I k~~j~~ kd~~q~~ xq d~~k~~svi Zkdj n~~sm~~ dk~~g~~pe ek~~u~~s/1/5 i ky~~k~~A, d~~fl~~k~~c~~ge. k~~b~~frg~~k~~ esfy[k~~h~~g~~b~~~~Z~~~~S~~ f~~lo~~ t~~h~~usyalkc~~u~~~~b~~~~Z~~~~h~~l k~~s~~
d~~h~~~~A~~ j~~l~~ k~~d~~ks~~g~~k~~k~~ ki f" Bk~~ds~~y,] H~~b~~~~Z~~~~h~~l d~~hi~~ f" Bkdj n~~sg~~
vc H~~h~~hdj k~~r~~g~~g~~ck~~h~~ esy~~u~~~~s~~~~h~~~~l~~ j~~l~~ k~~u~~seaki <~~ej~~ i f" Bkdj n~~l~~
j~~l~~ k~~v~~lpk Z~~l~~on, k~~l~~i <~~g~~g~~k~~ f~~ka~~ m~~l~~ d~~l~~~~s~~~~h~~~~l~~ o~~l~~ t~~h~~us~~u~~~~s~~~~h~~~~l~~ek~~x~~
n~~l~~~~k~~lkD kek~~x~~ k~~g~~~~s~~ og d~~g~~ k~~l~~ y~~k~~kn~~s~~~~h~~~~l~~ m~~l~~ us~~u~~~~s~~~~h~~~~l~~ o~~l~~ t~~h~~us~~u~~~~s~~~~h~~~~l~~ i uk
I leku m~~B~~k~~l~~ pykx; k~~A~~ d~~g~~ k~~l~~ys~~u~~si j aq j sk~~u~~ r~~l~~srw~~h~~cg~~q~~
g~~k~~ k~~A~~ e~~q~~dy I sc~~u~~~~b~~~~Z~~~~h~~l j~~l~~ py y~~s~~~~A~~ f~~lo~~ dkD k~~g~~g~~s~~ g~~r~~ k~~l~~ s/1/5
cf<~~h~~1/4k~~l~~ i j 1/4k~~l~~ ; sys~~h~~ej~~sk~~ k~~l~~sd~~h~~~~l~~ ug~~af~~cx~~h~~~~l~~ki j aq
r~~jk~~ j g~~k~~ d~~q~~ u~~g~~ f~~q~~ m~~l~~ d~~ko~~kl k~~j~~ k~~o~~g~~ay~~x~~k~~A b~~f~~ fy, H~~b~~~~Z~~
ru&eu&ku l c vi Zkdj nsxq l a d~~k~~ m~~l~~asxq j lenk
eg~~j~~ kt d~~k~~l c d~~q~~ vi Zkdj fn k~~l~~ d~~q~~ cl~~h~~ugaj [k~~A~~ i pe
i k~~l~~ k~~g~~ d~~g~~ \$xq j lenk eg~~j~~ kt l a l sgea s Qy i ~~tr~~ g~~k~~A l a

, lkgsksq^{1/2}pe i k' kg^{1/2}erksq^{1/2}py H^{1/2}
rudj au dk/kudj au dkeudj au dkdlvkaA
eas hukpht axq j lenk dksvi Zkdj n^{1/2}ru&eu&kuA xq
vt^{1/2}ns thdgr^{1/2}tc ge mudh k. ki N^{1/2}geusi Zkdj n^{1/2}i flh
1/4hxq vt^{1/2}ns thdkcM^{1/2}usugadlA yaj dkl k*ki* z^{1/2}d
1/4apt Z^{1/2}flkvkflkj S^{1/2}hml dsi k^{1/2} flh usksallj dj fn k^{1/2}
tc 1/4hx^{1/2} j lenk thdkcM^{1/2}zv^{1/2}kA dgr k& l^{1/2}pfy,
egk k^{1/2}] ejssyM^{1/2}sdlh k^{1/2}hga xq j lenk dgr &u^{1/2}at ssghe
py^{1/2}sl k^{1/2}h ar py^{1/2}arissebruhrlr uga^{1/2}lyusdlA fQ
dgr &ge vi usi ekdk^{1/2}rsq^{1/2} i flh dksqk k^{1/2} dgr &jskrkA
vk^{1/2}kg^{1/2}nsi dsyM^{1/2}sdlh k^{1/2}hga^{1/2} dsi k^{1/2}t kA og dgr k^{1/2}t h^{1/2}ogk
dk^{1/2}calslr dj usdkug^{1/2} eg^{1/2}ns 1/4hvt^{1/2}ns thdknlyjk
H^{1/2}zrksi k^{1/2}ky g^{1/2}vt^{1/2} dksd^{1/2} i rkug^{1/2}scalslr dgk^{1/2} s
dj ukgs^{1/2} bruk fQ nt^{1/2}asegkn dksqk kA og dgr k&eqs
rksthOogk dk i rk uga^{1/2}eqsH^{1/2}rsq^{1/2} fQ vt^{1/2} dks
qk k^{1/2}h^{1/2}rw^{1/2}wi uskA dsi k^{1/2}t k^{1/2}ogk k^{1/2}hga^{1/2} tc rd r^{1/2}sgu^{1/2}
ogk^{1/2}r^{1/2}vog^{1/2}gukA fQ xq vt^{1/2}ns thx, A i flh dksks syl^{1/2}
fl^{1/2}edga s^{1/2}xq j lenk t^{1/2}h^{1/2}xnhfdll hv^{1/2} dksu ns^{1/2}ea g^{1/2}sk
j gr^{1/2}ks^{1/2}g^{1/2} i flh dks grksirkug^{1/2}; sksZoj h^{1/2} xnhg^{1/2}; s
nl^{1/2}y k^{1/2}dhxmrhrks^{1/2}g^{1/2}at k^{1/2}ks^{1/2}g^{1/2} dsi k^{1/2}kn^{1/2}A; sksZoj d^{1/2}sp^{1/2} l s
cu^{1/2}g^{1/2}; sks^{1/2}&

tk^{1/2}: fi gfj vki xq ukudqdgk mAA
rkrsvand^{1/2} mrr fl mrr qeyk mAA 1/4u^{1/2}1408^{1/2}
; stksnj xlg l sxq vk flst; k^{1/2} La i] nt^{1/2} dhT; ks esj g^{1/2}
ld fy, xq vt^{1/2}ns thdgr^{1/2}eav^{1/2}i ukru&eu&ku l c l a xq

j lenk dksvi Zkdj rkgApfy, &

I a i t kfn gfj ukef/kv/kbk

tc eq ij xq j lenk dk↑t kfn* 1/4fu1/2di kgexbzrseqs
ule i tr gxs; kvls uehi jesoj Hhi tr gxs; kA nk t ks\$
1/4q us\$ [kfy; k&

I al fx vafj i HnBAA

ule i HnkykxkehBAA 1/4uuk&293/2

esmt I a ds kki jesoj dksvi usvaj nka xq vtzns
thdgr\$eqsule vls uehrnkski tr gxs, A ule dkvc ekt
dj rkgw ej u dj rkgwls uehdkes/ lu dj rkgw; seqs
mudhdi kl \$l a xq j lenk dhdi kl sqq vtzns thdgr\$; s
i tr gak&

I jc dbj rc RkvkAA

; gvkua eqsRkvk* dg1/4u1/2i tr gak I j s \$l I j svkua
xq vtzns thdgr\$eqsxq j lenk dhcnkl si tr goA
; geqsolrj tr goA esvi ukru&eu&lu vi Zkdj; k mudh
'jk. kea; kA xq j lenk dhdi kl seqs golrj tr goA j v k
Hh; fn bZqj dksvi Zkdj k\$vk dksHh; g 1/4u1/2i tr gshi jaq
bl 1/4u1/2dkels] elu NkskckNteqdy g\$ule ti ukcq
eqdy g&

I au fcua/o: unk kchvkaA

xq vtzns dgsvl\$ dksZhiy k chv k* Hko g\$ly sdIA I aka
dsfcukvls dksZhiy knkrkugadHk&ekdknkkla g e\$
vk dksrk kqjxq j lenk I seqs c dN feykA v k dks rkg\$
xq r s cgkqj cB\$ dN fuad HhcB\$ekr kxtij hHhcBhFkA

, d l a& k^layk lA og dgr^gsi ekf u k^lu g^lu h^lb^zku g^lu x^ltj^lku
g^lcrk^ll^hlyr^l kgs xq r^l c^lgnj i ^ll^hcrk^ll^hlyr^l kgs i ek
f u k^lu g^ll^hb^zku g^lu x^ltj^lku g^lcrk^ll^hlyr^l kgs og
dgr^g & h^l; s^lksck^l Bl^l g^ll^h i ^ll^h] xq r^l c^lgnj t^lhusn^lga g
m^ljk f^l k^l xq l^l k^lgc us^l H^lmudkeg ca dj f^l lA b^l fy, H^lb^z
I a^lekl^l R^ljk dj ukpkf^l A b^l I ^l c ddqy] l^l j^ls^lkua] Klu&/, ku
I l^ljs^ltr g^lst k^lx^luke H^lhi^ltr g^lst k^lx^lkv^lSi j^lesqj dk/, ku H^l
g^lst k^lx^l; k^lu l^lkk^l i j^lesqj dk^lg^lst k^lx^lA ; g^lxq vt^lns th
dgr^g & q^ls^ltr g^lst k^lx^lqj l^len^l l^la d^lhd^l kl &

t^lkt^lkt^lj^lf^l.ki j^lS^l k^lkd^lh

t^lks^lh^ll a dh' l^l.ki N^lA t^lks^lge Kluhi v^l a g^lst^lks^lh^l
n^l dh' l^l.ki N^l&

I k^ll^l x^l lehd^llv kAAj g^lmA

og m^lla^l l^l x^l leh^l dj f^l k^l n^l dhel^lkdj n^l t^lle&ej . k
I s^ljdj f^l k^l l^l a dh^l sf^l k^lu^lg^lst^l l^l a dh' l^l.kesi M^l k^lx^l
og ^ll^l x^l leh^l g^lst k^lx^l n^l dkt^l le&ej . kN^lWt k^lx^l n^l dhel^l
g^lst k^lx^lA ; g^lOy g^l a dh' l^l.ki N^l s^l c d^l vi Zkdj us &

dks^l i j^lkkfeVfg t u l^l sk

dgr^gst^lks^lb^zoj d^l; l^l k^l l^l f^l; k^ldh^l t^lks^lb^zoj d^l k^l, d^l g^l
g^lf^l[k^lg^lsd u^lg^lsa k^l k^l 1/4hxq r^l c^lgnj t^l 1/4t^lc^l; s
tu dh' l^l.kesi M^l k^l] d^l s^l c d^l vi us^l k^l ghi^ltr g^lst k^lx^lA
d^l fy,] t^lks^lh^lb^zoj d^lk^l; k^l k^l t^lks^lj^lesqj d^l k^l, d^l g^lspdkg^l&

gf^l gf^l t u nb^l d^l g^lcc fopk^l d^lN^lukf^lgA

ty r^lsm^l t r^l ft mt y ghfc[k^l ekf^lgA 1/4 e x^l 1/2

d^l fy, t^lks^lj^lesqj d^l k^l, d^l g^lspdkg^lSi v^lz^lzeKluA t^lks^lh

mudh' k. k i ~~sk~~ mudh l sk dj ~~sk~~ og i k xj leh $\frac{1}{4}$ $\frac{1}{2}$ g~~s~~
tk xl&

gfj dljr uqj fl xk~~z~~ SA

gfj dkdl~~z~~ v~~k~~ dks/kt k x~~k~~ m~~i~~ ej l v~~k~~ xl&

fl ejf fl ejf uke~~q~~ k~~a~~ckj AA

ukud t hv dkbg~~s~~ k~~j~~ AA

$\frac{1}{4}$ $\frac{1}{2}$ $\frac{295}{2}$

dgr~~s~~ t h~~o~~ dk~~m~~ k~~j~~ g~~s~~ t k x~~k~~ t c rjskeu f ej u ds k~~r~~ t k~~z~~
tk xlA v~~k~~ dks rkg~~m~~ ck d~~k~~ t c ft l dkeu f ej u ds k~~r~~
t k~~z~~; k~~j~~ og b~~Z~~ j d~~s~~ k~~r~~, d g~~s~~ t k~~k~~ g~~s~~ vyx ugaj gr kA v~~k~~
f ej u fd~~l~~ dkdj rsg~~s~~ b~~Z~~ j d~~k~~ v~~k~~ dhoff~~R~~ b~~Z~~ j d~~s~~ k~~r~~ t k~~z~~
g~~Z~~ t kog i j esq~~j~~ g~~s~~ v~~k~~ dhoff~~R~~ rkt k~~z~~ j esq~~j~~ d~~s~~ k~~r~~
vyx rkj ghug~~A~~ ft ruhn~~s~~ v~~k~~ dhoff~~R~~ vyx] v~~k~~ vyx] mruh
n~~s~~ v~~k~~ dks d~~k~~ b~~Z~~ j ugafey~~s~~ A n~~s~~ kdhpt arkl k~~j~~ hfe~~y~~
tk xhde~~Z~~ ubj~~j~~ A de~~Z~~ rk~~s~~ Qy nsnskg&

t skcht S ksy q~~s~~ ej ekl a~~N~~ [ksAA $\frac{1}{4}$ $\frac{1}{2}$ $\frac{134}{2}$

b fy, de~~Z~~ rk~~s~~ Qy nsnskg~~S~~ gr k~~Z~~ j h U~~k~~ g~~S~~ j v~~k~~ dks
ek~~k~~ ugafey~~s~~ v~~k~~ dks ek~~k~~ ugafey~~u~~ A de~~Z~~ c rd dj rkj g~~s~~
t c rd b dkva~~%~~ j . k' k~~k~~ ugafey~~s~~ t c b dkva~~%~~ j . k' k~~k~~
g~~s~~; k~~f~~ q b dks a fey~~s~~ v~~k~~ el~~k~~ g~~s~~ plgs s a dksfey~~s~~
plgs a b dks v~~k~~ vldj fey~~A~~; k~~n~~ k~~Z~~ eafy[k~~kg~~& t c ; g i j~~s~~
r~~s~~ l si j esq~~j~~ dhfu'dle g~~s~~ l skdj rkt k~~j~~ H~~y~~ kdj rkt k~~j~~
fu'dle l skd~~h~~ f~~q~~ ; fn b~~Z~~ j u feyk~~1/2~~ zu~~1/2~~ og dgr~~k~~ & u~~g~~; fn
; g vi uh~~M~~ hi j B~~o~~ g~~S~~ j i j esq~~j~~ t :+j fey~~s~~ f~~q~~ b~~Z~~ j
[k~~q~~ v~~k~~ x~~k~~ ; srksf n~~k~~ a g~~s~~ t ks v~~k~~ dki k~~p~~ h~~1/4~~ k~~h~~ $\frac{1}{2}$ k~~h~~ k~~h~~ k~~h~~
l sgy pylusy xkg~~S~~ v~~k~~ $\frac{1}{4}$ dsf~~y~~, $\frac{1}{2}$ k~~h~~ yslj ugah~~h~~ r~~s~~; fn u

t k] ?j dkyks lkyM M¹g¹D k¹ vkkj kr l sk; kg¹kg¹frus
j k¹hugai gplk¹frus¹ll hugai gplk¹ og gskrlsvl dkl kp¹h
g¹ b dkeryc ; ghg¹vi uhoff¹ dksBd dj k¹ fu'dle l sk
dj &

I skdj r g¹ fudle hAA
fr l dmgs i j k¹ fr l qle hAA 1/4Uk2861/2
ft lk¹asfu'dle l skdh¹ vc v¹k¹ f Nysfrgk i < ej n¹sky¹
gf e¹fj l kgc dkyA t c gf e¹fj l am¹gk¹ rksq l kgc us¹ka
ghdg¹ & k¹bzcgyls c l si gyk¹A l c l si gycgylsvk kA cgyls
1/4q l kgc dk, d ff [k¹us¹kgq l skdlA cgyls¹ksl dM¹dj
yk R¹ f Nyst le dkff [k¹R¹] l skdj rkR¹A xq j lenk thus
plj ck¹q vt z ns thdk¹g¹h¹ka

1- verl j l Ei v¹z dj ukgs

2- rj urk¹urk¹cukukgs

3- xq x¹k¹ kgc thdhctMck¹kuhg¹

4, d xlodj rk¹ i j¹ cukukgs¹lukgs¹A

; spkj dle v¹k¹ usdj usga m¹g¹hxq vt z ns thu¹z
dg¹ R apul plj k¹adj fn m¹g¹st¹ksog dgdj x, R¹m¹g¹as
fd; kA fQ D kg¹l¹ gf e¹fj l kgc rksl jykdj usokykj g x; k¹
xq pl¹ksl k' kg f¹ku 1/4Dd¹1/2yxldj x, R¹A ckck¹1/4kvfn
l k¹R¹ R¹og rksf¹ku yxkx, R¹x¹ck¹1/4v¹ x, R¹jykrksfd; kxq
vt z ns uA j lenk l j k¹ jule rks¹1/4fy, g¹2f¹ku t kxq
j lenk usyxk k¹kvldj Arlh j s k' kg 1/4hxq vej nk t h¹us
dg¹; gkrus¹ku yxlukgs¹og r¹h¹g¹geakq van ns thcrk
x, g¹; gdle r¹usdj ukgs¹ m¹g¹hxq van ns thdk¹q¹ ukud

ns t hcrkx, H&Hb ver dk? Nt kscpkR og; gknckg; s
cNli foxt xgg; gvk usHcukug;

; gk, d dj Hkdu vk] I Hk yxh Rhsrkv ksdh] tgkv
vdly r[r gS vdky r[r rksNBs kr' kg 1/4 hxq gj xkca l kgc
t Hcukuk kA verl j I amZd; ki pe i kr' kg uA t c cukusdh
I kj hr Sj hdh] f [kaufourhdh] xq vt Z ns t hdgr & gA og
t kis jkukf [kg] SQQN 1/4 al dk, d xl p 1/2 eacBkg; nti 1/2 kru 1/2
dks HkZdsQQN dgrs gA elyoseagA og ff [ko gk cBkg; A
uaj njc cukga] ebyekuk vks kVcukga] parjkcuk k
gSi tkdj dkkgS yklykakysdh 1/4 j dha nti sykv kSog rksN
i jkuk l sd gS gekj k nti dsfcuk dle ugapykA os 1/4 sd 1/2
dgr & fd; kD ktk \ dgs 1/4 q I kgc 1/4 nti si dMij ykv kA nks
yks vks si dMik plj yks i hns s/0dknksA vks dkxlp dys
dgs D kHbZt cj nl rhdj rsq; rq dguk & gekj sqx dkf [kg]
fi Nyk 1/4 gyst le dkA xq vt Z ns usgeahs kgs ge /0dkugja
dj r\$ xq usgeayss kgs t c mks sck dghrksxlp dys
dgusyx\$ckr I q HbZxq dsckj seage ugadn dg l drA t c
xq usagjk k fQ ge D ksdn dga 1/4 hZcgyksdgr kVejssi k
yks dhNM gS yklykakysdkm k d gheqSD kyst krsgs os
dgr & qsk ge yst k xA t c og x; k t c l ryq 1/4 f; kVea
eacBk xq I kgc usm sl kjkuD lkogkf lkfn kA t lsyksdh
NM kA og mti us ryq nf; keas dga og dgr & eqs kks nks
os 1/4 sd 1/2 dgr & wlk t k xA og dgr k & c rkHxusyk d j gk
ghug] vc ugakkr kA dgr & vPNk t c mks kks fn krks HkZ
cogyk k hkkverl j dhrj Q nks og nly kdksvi us kfkfeyus

½j kj vkuksA osdgr & sksdl hdsfeyusugjanskA t c og
 verl j xq I kgc dsgj . kesa gpk t ksghxq I kgc dsgj . kesa
 fxj i N A xq I kgc dgr & D kHbz dgr & t Hj eslyx; k ek kus
 Hbjfn k ek kdsek usHbjfn kA dgr & t Hj vc gpe dj kA xq
 I kgc dgr & g j ejn I kgc cukukgjxq j lenk dkgs g ; gk
 j gA dgr & R opul m fnu I smtjeksj kmBkfy; kA m us
 bjsdshBj dks] cMdk fd; kA t c gj ejn I kgc i jkgsx; k
 ½q I kgc ½dgr & t Hj cgq Bjd gks; kA xq vt z ns dgr & Hbz
 cgyks c l si gyksA t c Hbz cgyks k & dgr & dg Hbzdg ! xq
 I kgc dgr & ek vcA og dgr & t Hj Kku eqs / k / ½gks; k cM
 dl kdhj vkekdki k krdj eqsgksx; k vki usdj fn kA vc
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 dgr & t Hj es/c D kekwosdgr & t ksdgr & t Hj kopu gS
 ekA og dgr & t hm m skeat y ugak ekyoseat y ugak
 cdkhrks c d kA dgr & Qykrkylc dh, d b m Bknst k d j A
 m usdg & R opul m ust k d j rkylc dh, d b m Bknj l j k
 rkylc Hj x; k ty ght y gks; kA yks bdV Bgksx,] dgr & dg
 Hbzdg vc rksplgshsauk,] plgsv krehugk,] plgsi kuh hyA
 dgr & rksk Hbz cgyks Mdk fd; k ge rks; k sej rsA og
 dgr & g rksd HhugagA dgr & ks gk ugk xk m dk Hj k
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 I Hhugkugr sA yks veld; kugr sA t k d j m kA ld fy, ogk
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HbZ skdg[l spydj v[k[k[! rh[j si k' k[usm[sc[' k[
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gf dj[r u[j f[x[b[SA

vc gf dsd[t[dk, lskj l g[k[g[v[f[d[h[t[dk[eu ug[
dj rk[i j esq[ds k[keu, lskt k[t[k[g[d[t[dk[r[g[v[e[
t i r[g[b[r[k[g[e[j l v[k[g[xq vt[ns thdgr[i k[os
i k' k[H[d[t[dk[r[g[v[k[dk[r[g[t c p[k[k[k[' k[h[q[
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I Üscyoasusq I kgc dls d ck dghfd , d fnu dsdltz dk
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dgr & geusi uhyNldh kkhadj uhg ntuasdg& jk: i ; k
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dltz dj rskrks ar vkrhRKA m! uas gysqvkdsck seadgk
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dḡk̄H̄b̄z̄y//k̄i j k̄sdl̄j h̄ḡsyl̄ḡs] v̄k̄ nt̄l̄ dsnj okt si j t k̄v k̄s
1/4ḡr k̄ek̄k̄sQ nt̄l̄ ds k̄ x, A nt̄l̄ usi w̄k̄d k̄kr ḡs nt̄l̄as
1/4k̄ h̄ck̄ 1/2r k̄A nt̄l̄ usdḡk̄ & euscḡq xyr hdh̄A r euscḡq cjk̄
fd; k̄A dgusyx&euscḡq cjk̄ fd; k̄ ge l̄ sḡs x; k̄ ge ac[' knks
1/2Q dj k̄A xq vt̄l̄ ns usdḡk̄ fd H̄b̄z̄t k̄s budh̄f f̄' k̄
dj s̄k̄ nt̄l̄ dkeg dkykdj dsx/k̄si j p̄k̄x k̄A H̄b̄z̄y//k̄eg dkyk̄
dj d̄s x/k̄syd j x/k̄si j p̄k̄j v̄k̄ k̄A cP̄ost S̄re k̄k̄cuk̄sQ
nt̄l̄as b/s̄k̄ el̄j] m̄k̄ el̄j] 1/2s̄j 1/2el̄j] Åph v̄l̄kt ael̄j]
gl̄ h̄et k̄d dj d̄s l̄j k̄rek k̄k̄ k̄cuk̄f n̄k̄f Q̄ r k̄f Q̄ rkt c xq
I k̄gc ds i k̄ v̄k̄ k̄A xq I k̄gc usi w̄k̄d k̄s ḡs dgr & H̄b̄z̄y//k̄
ḡs dgr & k̄kr ḡs eg dkyk̄ fd; k̄gsx/k̄si j cB̄ḡḡk̄ḡs nt̄l̄as
1/4uscyo dlsksx[' k̄usdsy, A 1/4q I k̄gc 1/2dgr & ogr k̄s k̄sh
vkt k̄k̄ ge rksc[' kns k̄A H̄b̄z̄y//k̄s dk̄r k̄s st :+j r ugdk̄A xq
I k̄gc usm̄s[' k̄f n̄k̄ k̄A ; ḡf Q̄ I Usocyodlsksx * 1/2r f̄ xht 1/2
m̄pl̄j h̄ḡ 1/4q I k̄gc 1/2dgr & f̄l̄ eḡ l̄sfuakdhḡs nt̄l̄as
1/4r f̄ 1/2m̄pl̄j k̄A f̄ Q̄ nt̄l̄as d̄j m̄pl̄j h̄ L̄f̄ d̄l̄A f̄ Q̄ xq
I k̄gc usc[' k̄A mu i j c[' k̄k̄ḡz̄k̄s mudkdk̄e n̄jnḡq k̄A b̄ fy,
H̄b̄z̄t k̄s k̄hi v̄k̄ z̄ak̄d h̄fuakdj s̄k̄ ogi k̄ dhrj Q̄ t k̄ x̄k̄ t k̄s k̄f̄
dj s̄k̄ b̄z̄j ds; k̄ k̄d h̄j nt̄l̄ ds k̄ s̄k̄ c[' k̄t k̄x̄s; ḡx q v̄t̄l̄
ns t h̄dgr Åpy H̄b̄z̄

b̄z̄k̄ l̄k̄y k̄S̄p̄k̄Åty

: ḡk̄l̄ b̄z̄ v̄k̄e l̄ k̄ki l̄r ḡs k̄v l̄s n̄j x̄ḡ eam̄ dke k̄m̄ Toy
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t u dkl æcpNkkhi kozSA 2AA

xq l kgc dgr& d e^gdy clk gA t c ld dsÅpsH^X 1/2
fu'dle deZl vZ^gks st u dsl & est k xkA 1/2j uk^{1/2}Hht krk
ghug^{1/2}dbZ^gls akadsekursghuga^A, d dgr& gkl a dksZuga
g^gl c j k^g/ k [kusokysga nlyk dgr k^grussdrus[k^gmusga
1/2gyk^{1/2}dgr& [k^glmukrksdksZuga^A 1/2lyk dgr k^{1/2}Q rvd ka
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f[k^gkuh^g] d^gl [k^glmuk ugh^g d^gl ysk ugh^g d^gl ns^g ugh^g rws^g
i k^gyi u dhckradj rkg^grws^g j gA dbZ^gksdhrks^g fukd^{1/2}
vkr gh[k^glc g^gst k^ghg^g j aq g i k g^gskg^g bZ^g d^gl; k^gkdh
l skdj uslrf^g dj us s k^gsi k^g ukkg^gst k^grs^g mudhfurakdj uk
i k g^gskg^g

dk^g/ i j k^gkfeVfg t u l sk

bZ^g d^gl; k^gkdhl skdj us sdj k^g k^g ukkg^gst k^grs^g l dh
H^gauk' k^gkplkg] l usrlks^gi uhy^gH^gauk' k^gkdj uhg^g t c
H^gaku j le dh' k^ghgb^g dksZd sfux^gkl e>r^gk^g dksZd s
D k^gsj le dhtc' k^ghgb^g dksZd sfux^gkl e>r^gk^g dksZd s
l x^gkl e>r^gk^g dksZd sj k^gkl e>r^gk^g dksZd sn^geu l e>r^g
k^g dksZd s l e>r^gk^g A osdgr sl^ggl hm^g t h^g&

ft ud\$ gHlkoukt \$hA
 i Hkoyr nfkhfr ufg r \$hA 14 h j lepj r ekul ½
 t kst l dhHlkoukRhaqfkdj m dsvubkj fn[k kRkmh sj la k
 vkn dksksn[k kRkHbz sgelj knbeu gS dbZyksksn[k k
 Rk & sj kt kgsdbz segkj q "kl e>rsf dbz e>rsf & sbzgj gS
 dbz e>rsf & g fuwzla i i j esoj gSdbz e>rsf & sl xz
 i j esoj gS
 gj dljruujf xlzSA
 dgr\$gj dkdlm djsbd esl sj l vlxLA j l rkld esl s
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 ij j grhRk , d nljysl gMij A , d phrhlyhdsi k vlxLA
 dgrk&cgu] rwgkj grhgs; g i oZ rkscl [kj kgsrveissi k
 vlxLA dgrk&PNk! tc nljhmtdsi k pyusyxj rksmt s lalk
 gkszbz dgaogk [kusdksd] ukfeyA bl fy, og vi useg ea
 vi usued dkVqNtysxbz tc og xbznljhpzhusmt sd] [kus
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bl fy, bl dsvaj [kj kHj ki Ngs] lkj ; sNksukugad u\$
 m dsvubkj ghcksukgsd uA ; fn bl dsvaj fej h elBkgs
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 t Ngs; sdHhfufakugadj l drkfdli hdIA bl fy, Hbz gj

t u k d s l a l s s Q y 1/4 lk 1/2 g k g & f q m t s j l v k k g & d l m z
d j r s f u l e t i r s g &

b z k l b k a k x S e p k A t y

: g k l b k i k x s i j e s q j d h n j x l g e a & f k n t y k g &

t u d k l a c p N l k x h i k a z & A

c n k x d y k i q " k t u k d k l a i k k g & ; f n H k Z g y k u s i g y s
x q d h l s k u d h g & l j r k s q j o g D k n t s e x d k & v l s u d k s
e x d k f y ; k o s d g r & o g r k s x l p 1/2 Q O N V a c B k g & l s k d j u s o k y k
i g y s m t s y k v k a o s q j y k m t A b f y , i j e s q j d h d l k l s g h
d l e a u u s o k y k g &

j l u k , d v u s l x o k i j w

d g r & , d t h k g & j l a j l e n k e g j k t e a v u s l x o k g & f t r u s
i j e s q j d s x o k g & l k s g e k j s q j l e n k e g & ; s q v t z n s t h
d g r &

t u d h d s d m i e k d g h v & A

b Z j d s l k j s l a x q j l e n k d h e & D k n i e k d : l x q v t z
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, b s d f k u d j r s f o s d g r & l s g & f j d k u l e r k s q j l e n k i M g S
i j a g y k s k d k s i r k g h u g d A y k s b Z j f d l h v l s d k s e k u r s g a & l s
x q j l e n k d k s / y x e k u r s g & i j a &

g f j t h m u l e q j f v k j l e n k A A

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g f j t h d k u l e r k s / c j l e n k i M g S b u e a j e s q j d s l k s q k
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 l akdhl j. kyshpkf A ge xq j lenk dhv j. ki N g v k
 H k b z tsgl akdhl j. kyk xq vt z ns thdgr &
 fuj xq ulp vukkvi j kkh
 dgr & e skg j xq vt z ns dgr &
 fuxk & ejsead k xq kug AA
 ulp & e ulp g AA
 vukk & ejskd k z kfyd ug g AA
 vi j k k & c N vi j k kh qij xq j lenk ejskelkyd g AA
 v k l au dhv gh AA
 v lg & kf ysy k u s k xq j lenk dkv k j kf y; k e s r k
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 og vi u h T k xq j lenk] xq vt z ns e s j [k d j x,] i k

eaugdaj [ldj x,] egns eaugdaj [ldj x,] cMñksogh¹ vls
nljysfdrus¹/sd¹/T; k¹ ogd¹xq vt¹ ns e¹j [ldj x,]
T; k¹ La i culdj x, g¹ og T; k¹ tks¹Aij 1/1 xlga¹s¹
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t k¹: fi gj vki xq ukudgk mAA
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og T; k¹ xq j lenk xq vt¹ ns e¹j [kx,] og T; k¹ La i
cuk x, A , d i k¹ dysckradj rsg¹ easHh vPNh yx¹ os
dgr¹or¹ku dxq dksekukdj k¹ easdg¹Hb¹ckr rks¹g¹
vc T; k¹ rks¹ q¹ vt¹ ns e¹A xq ukud ns] xq v¹n ns] xq
vej nk] fQ xq j lenk] vc og T; k¹ rks¹ g¹cBh¹Si lpd¹
txg xq vt¹ ns e¹A vc rks¹ ghukud g¹ v¹dksi rkg¹ t c
xnhij cB¹ s¹ukud i n ns¹A xq vt¹ ugh¹ gr¹ s¹ukud i n
ns¹A og T; k¹ vc vkbZ g¹A easdg¹Hb¹ckr rks¹g¹
ld fy, elg: i hdqje¹ sfudky dj xq j lenk us g¹fcBk¹ h¹A
vk H¹fdl h¹ a dh¹ j. kyl¹ eas¹ks¹ a dh¹ j. kl¹ s c d¹ i hr
g¹g¹vR¹ks¹ ghg¹ i <ns¹Hb¹
fuj xq ulp vukkv i j k¹khv k¹ au dhv lg¹AA
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c¹ks¹ fruleq¹ hol¹fxq !



I vlej I frxq i lknAA

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j [kq xr q xy ngrkj leAA
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oj udfguap t kbyf[kv kdfku rsdRkAA
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I k j h l ar di k n kesj dj dsdgksl fruleqj hdkgxq !
I fruleq hdkgxq !!
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vk kgsm dhQk; kl qk &
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elpu $\frac{1}{4}$ ekr $\frac{1}{2}$ fd; kg $\ddot{\text{S}}$ dr &dr g $\ddot{\text{S}}$ x, A ge dk $\ddot{\text{S}}$ dkm $\ddot{\text{S}}$ plj. k
 dj usokysg $\ddot{\text{S}}$ x, 'ko $\ddot{\text{S}}$ g $\ddot{\text{S}}$ sj A; s $\ddot{\text{Z}}$ oj xq ukud g $\ddot{\text{S}}$
 i $\ddot{\text{Z}}$ kdj. kd $\ddot{\text{S}}$ j. kl ej Rkj leAA
 g $\ddot{\text{S}}$ H $\ddot{\text{H}}$ Z i H $\ddot{\text{H}}$ t lsg $\ddot{\text{S}}$ j esqj]; sdj usv $\ddot{\text{S}}$ dlj. k $\frac{1}{2}$ dj ku $\ddot{\text{S}}$ ed eR $\ddot{\text{Z}}$
 g $\ddot{\text{S}}$; sd $\ddot{\text{S}}$ rl $\ddot{\text{S}}$ q "kH $\ddot{\text{H}}$ g $\ddot{\text{S}}$ dsg $\ddot{\text{S}}$ e esl j kdle g $\ddot{\text{S}}$ kg $\ddot{\text{S}}$
 gdeSvafj I H $\ddot{\text{H}}$ pl $\ddot{\text{S}}$ kgfj gde u dksAA
 ukud gdeS sc $\ddot{\text{S}}$ kgneSg $\ddot{\text{S}}$ dksAA $\frac{1}{4}$ uk $\ddot{\text{S}}$ & $\frac{1}{2}$
 I j $\ddot{\text{S}}$ hi fV i j esqj dsg $\ddot{\text{S}}$ e espyrhg $\ddot{\text{S}}$ d $\ddot{\text{Z}}$ yx i R $\ddot{\text{S}}$ kfgykus
 dykug $\ddot{\text{S}}$ hi j aq $\ddot{\text{S}}$ lo b $\ddot{\text{Z}}$ oj dsg $\ddot{\text{S}}$ e $\frac{1}{4}$ t k $\ddot{\text{S}}$ es $\ddot{\text{S}}$ kt kurkuga
 ld dkva $\ddot{\text{S}}$ dj. k'ko $\ddot{\text{S}}$ ku $\ddot{\text{S}}$ g $\ddot{\text{S}}$ fodlj. kadsf gr $\frac{1}{4}$ l $\ddot{\text{S}}$ kg $\ddot{\text{S}}$ g $\ddot{\text{S}}$
 dleuk; cgq T; krkgsx $\ddot{\text{S}}$ l $\ddot{\text{S}}$ uk; cgq T; krkgsx $\ddot{\text{S}}$ l $\ddot{\text{S}}$ ukd $\ddot{\text{S}}$ k $\ddot{\text{S}}$
 t $\ddot{\text{S}}$, d g $\ddot{\text{S}}$ krkg $\ddot{\text{S}}$ t $\ddot{\text{S}}$ ds $\ddot{\text{S}}$ R $\ddot{\text{S}}$ cgq g $\ddot{\text{S}}$ j fpr $\ddot{\text{S}}$ est $\ddot{\text{S}}$ odgr $\ddot{\text{S}}$
 u] t $\ddot{\text{S}}$ i j esqj dh $\ddot{\text{S}}$ kr $\ddot{\text{S}}$ ds k $\ddot{\text{S}}$ kdle dj rkg $\ddot{\text{S}}$ I R i j esqj I R
 ghj grkg $\ddot{\text{S}}$
 v $\ddot{\text{S}}$ fnl p $\ddot{\text{S}}$ g $\ddot{\text{S}}$ fnl p $\ddot{\text{S}}$ A
 g $\ddot{\text{S}}$ thi p $\ddot{\text{S}}$ pkud g $\ddot{\text{S}}$ h $\ddot{\text{S}}$ hi p $\ddot{\text{S}}$ A $\frac{1}{4}$ uk $\ddot{\text{S}}$ & $\frac{1}{2}$
 d $\ddot{\text{S}}$ hi j esqj dki z $\ddot{\text{S}}$ ke $\frac{1}{4}$ nylo@ f or $\ddot{\text{S}}$ ugag $\ddot{\text{S}}$ lA t S $\ddot{\text{S}}$ nk
 dki z $\ddot{\text{S}}$ ke nghg $\ddot{\text{S}}$ sk g $\ddot{\text{S}}$ og dki d $\ddot{\text{S}}$ h $\ddot{\text{S}}$ nu $\ddot{\text{S}}$ ugag $\ddot{\text{S}}$ sl drkA ; fn
 i j esqj H $\ddot{\text{H}}$ dH $\ddot{\text{H}}$ t $\ddot{\text{S}}$ cut $\ddot{\text{S}}$] v $\ddot{\text{S}}$ l $\ddot{\text{S}}$] rk $\ddot{\text{S}}$ Q t $\ddot{\text{S}}$ l $\ddot{\text{S}}$ R i uk $\ddot{\text{S}}$ ogr $\ddot{\text{S}}$
 m $\ddot{\text{S}}$ Mt $\ddot{\text{S}}$ v $\ddot{\text{S}}$; fn I R i uk $\ddot{\text{S}}$ Mt $\ddot{\text{S}}$] dki og i j esqj cu ug $\ddot{\text{S}}$
 l drki jaq $\ddot{\text{S}}$ skug $\ddot{\text{S}}$
 ft mt y efg t y $\ddot{\text{S}}$ kb [k $\ddot{\text{S}}$ ukAA
 fr mt k $\ddot{\text{S}}$ hi f $\ddot{\text{S}}$ t k $\ddot{\text{S}}$ I ekukAA
 fefV x, xou i k $\ddot{\text{S}}$ fd $\ddot{\text{S}}$ leAA
 ukud i $\ddot{\text{Z}}$ kd $\ddot{\text{S}}$ ndj $\ddot{\text{S}}$ ckuAA $\frac{1}{4}$ uk $\ddot{\text{S}}$ & $\frac{1}{2}$

b dkt lkj h jg d ead eu g &
 ru efg eum keu efg l kpkAA
 l ks kpkfey l kps kpkAA 1/4uk&6861/2
 ru ule 1/4pd 1/2gk h j dkl b ead eu Hkg &
 l alYi fodYi gheuk 1/4dZ 201/2
 t kl alYi & fodYi dj rkg gog eu g f t l alYi & fodYi esgh
 [kksr ; fnLa i esfkr gsk rkt sst y est y feydj , d gks
 tkkgfrks s1/4t h 1/2h h 1/2j esqj 1/2gsl drkg gsh h 1/2A
 b dy ,] ; si zke ugak ; grks foar Zgbd usksd Hhnyukgh
 ugak t sst y dhrj xamDh g t c dk qkrh g t c dk opa gks
 tkhgfrks j x Hkydgkpykx; k t y dkt y ghj g &
 l jvt fdj f. kfeyst y dkt y gwkj leAA
 t ksht ks j yhl iajwqkvkj leAA 1/4uk&8461/2
 b dkt kseu gsmi usl R esghyhu gskfr vls b us[ks
 dj uhkhi j esqj dhrj Qdk &
 [kksr [kksr rrqckpkf vksk xksa i j k b kAA
 vfcukl h[ks plgfg t skud l nkfl ej ulj k b kAA
1/4uk&7141/2
 b usksj k . kdkf ej uvkbig dj ukfka ; ghj krg &
 fl ej fl ej uke ckj akj AA
 ukud t hv dkbgv k j AA 1/4uk&2951/2
 t lo dkv k j 1/4m4k 1/2f ej u dsfcukd Hhugagks j i j ; g
 j krg Hkwy ; kA b dkeu ff ej u esagh ; k fo'k fodjk k adleuk
 eaQ x ; kA dHk t c b dks jfr 1/2gsk 1/2k xhj bzj dhdi kgk
 rkog dle cusk &

dbZt ue Hk dlvirakAA

dbZt ue xt ehu djkAA

144&176½

fdruhckj tlo pjsk h1/2sQs1/2eafQ rkvkrkgSj b dks
vi ukvlk ughfeyKA lqnsdAij tc dl kgqfRksmt dst le ds
le;] xHzeadi kgsxbA og dl kgsssdslj. kdkj uvkA mli us
1/2j esqj usdg&gHk D kcr dj rkgS 1/2qns1/2grk&gs
ij esqj] rwi uhek kdkl tky y\$fc ejdgj vkaXkj ugarks
ek keqspid tk xlA tc og thonf; keavkrkgS rksmt
rd ek kHyt krhga fQ 1/2le d\$Hk sckn; srjskck gS; s
rjshekgSfQ oxfg&oxfg b dkeur HhcV tkrkgS; stgeu gS;
; se-kga l c dN b dhf kkkld hdle eaqshgS; gi j esqj
1/2r kZdhrj Qrlst krgugaga fQ ; go kZk tkr; kdkj
et gckdkcMtvfHeku dj rkgS vifHeku D kdj rkgS yMz
Nydj cBt krgu gnuhNy yskgS b fy,] b dk; \$ krgugaga
RKA b dk j ktk rksf ej u Rk vls f ej u rHhpysk t c
I alY &odY] [k ky fdl hrj Qdkugaga tcl kjsk ky b dh
, d off 1/2k ky1/2eav/k1/2ek2t kxA og off b dhf ej u dks
eku yshfQ b dks j esqj dhi kfr gskA b fy,] ; g 1/2lo1/2
j ktkHw; kA j ktkHw usdslj. krlvijhrj Qpykx; kA vc i <+
Hk

i kdkj. kdkj. kl ej Rkj leAA

gshkZ! i kdkj kjsdlekdsdj uses elRzA mli ea/fpR 'kD
gS og vfpR 'kDr ds kfk1/2k kghl Hht kksdalle dj krgS
ij adp dks sugai rkfd drkZ q"ki j esqj gS; sdrkZ kq cu
tkrgS dH&dHh; gyM MkgS; shhdg nskg&ejssckn D k

dj k₁ e₁ g dj fn k₂ e₂ bkdj fn kA i j aq g ck ugdg₁
drk₁ q"kdhc[k₁k₂ oghvt₁ R₁ oghnt₁ dsi k₂ ckkR₂ ogh
b dsgf₁ R₁ m₁ svgalj g₁; kfd H₁zeqs/k₁feykg₁H₁oku
f lo dk₁ ejst leusdk₁/kugal drk₁ eqs₁; dk₂g₂ feykg₂
H₂oku d". kds₁ k₁kn₁ dkl R₂ R₁ m₂g₂H₂oku d". kus₂
dg&vgalj rks₁ l₁&ej. kesyst krkg₁vc vgalj rks₁l₁; g
rks₁l₁kugal m₂sdg₂l₂t₁l₂bu x₁; kadksyst kv₁l₁ t₂c
x₂; ledks₁ k₁y₁d₁ x; k₂ mu H₂ylasux₂; k₁N₁ y₁ m₁dk
l₁t₁dk₂ c d₂ N₁ fy; k₂ m₁ dks₁thek₂&ek₂ dj xlmM₁uk
fn kA m₁s₁ i rkyxk₁e> v₁k₁H₁o₁; s₁ks₁kd₁] vfp₂ 'kd₂
dgal svkhgs₂; g ejs₁ kd₁ ugd₁ H₁oku d". kusdg₁brukrw
'k₁o₁] I c d₂ rjs₁ k₁] brusck₁R₁rgsD kg₁; k₂ l₂t₂dk₂
dgrk&eqsugai rkd₁ ck dkl b₁ fy, t₂ b₂ sf₁ hpt₁ dkdk₂
g₁st k₁ fd ugd₁Q₁; st₁l₁kugal b₁ fy, m₁ {kk₁l₁qns₁dst l₁
{kk₂es₁trus₁skg₁vk₁ i <elj n₁sky₁ k₁sf n₁kg₁; A D k₁
ek kugalpi d₁A; gek krk₁ l₁hs₁; g₁pi d t₂ k₂ rks₁l₁thug₁
f₁Q₁ rks₁q ghN₁dk₁ drkg₁Q₁ v₁S ugd₁l₁dk₁ drk₁
'l₁qns₁tc pykx; krk₁Q₁ m₁dsi H₁spy i N₁A Q₁ I e₁Z₁k₁
v₁S xq R₁A xq xnhdkelkyd R₁A y₁ekurH₁g₁Q₁ xnh
d₁A m₁sl₁Q₁ dk₁kg₁; k₁R₁ m₁ds₁v₁ el₁g₁vk₁; k₁ki ek₁
d₁A el₁g₁vkusdk₁. kog; R₁zminskudj I dk₁el₁g₁us₁k₁eu
xakdj fn km₁dk₁eu e₁R₁p] m₁ s₁tr udj I dk&
ru efg eumkeu efg l₁kp₁AA
I k₁ kp₁fefy I kp₁ kp₁AA 1/4UK&6861/2
og t₁ks₁l₁ds₁v₁Q₁. kes Ükns₁sk₁ i zdkkdj us₁ky₁ I k₁h

gog vki dksvi usvk dki rkugja vi usvk dkA og gseykgjuk
Okid ds kA tcvk midsk4k lhdsl kfkfeydj Okid ea d
gsk,] t leej .k Wt kxkA b fy,] m us10k us2dkn ea
dg&ejshck l q yA 1/4qns1/2dgrk&udal qrkA dgr&D kauga
l qrk dgrk&ejstrust le gg gSdbz le], d rksugagjk! eS
unhdsfdlkj syx 1/4gp1/x; k i kuhkA eqsogkNkAfr k eS
m unhesxj x; kA yk ejssAij i sj [kj [kdj pysx1/2x,]
og oDr egs kn gA; fn efsck l q yh rjssvaj gsekA 10k
dgrk&py] rveish, d ck eku] vPNk! rvud ds k pykt kA
m s0k dks1/2rkfkk&hbt ud czeKkuhgvc og 1/4qns1/2k
cde. k t ud fik{k kA og 1/4qns1/2j krsseapyrsgokl kork
g&hbt og gS k k egnR kxkA vc fir kdkr kseast kusdsf, dg
fn k m usdg&opu rksi jk d: xkA m 1/4ud1/2usdg& d
cde. kusvukogSR kxkA kkuhrksugagSj vgaljk hga m dk
vgaljk rks1/2fQ vaj ykukA m us2dkn kus2dg& R opu!
m usdg&j okt kcadj nksmtkaj okt kcadj fn kA
dks1/2 fruleqj hafqoxq !



I vlej I frxq i lkfnAA

15

I kof. kl j l hdke. khpj u dey fl mfi v k#AA
euq uqj rkl p j f x bdkuleqj k#AA
fcf[kvkj x d M ovkfnl fu l H sN k#AA
gfj v fez cml glo. khfefy l k kivlo. lgk#AA
o. kfr. kij zkl f x emfyvkl a k j kvi k#AA
gfj fey. k ukeugy kpnkdj fe feylo. lgk#AA
ft uhl [kh i H q k b v k g n fr u d \$ n c f y g j AA
ukud gfj t hebv kdfj l cfnl okj. lgk#AA
I ko. kfr ukl gkx. khft u j ke u leqfj gk#AA x AA

1/4 134 1/2

I k j h l ar di k n k esj dj dscksl fruleqj h okgxq!
I fruleqj h okgxq!!

t \$d lou dseghust c ck ' kgksho f yk x bd V b d g s g m ea
cgq yk x l kh g s g m bd fy,] ft K k q kg p j esj dhi k fr ds
fy, dleukdj rsq; Ru dj rsq; H b Z esj j esj i k fr g t c
mudki j esj d \$ xq d spj. kdeykdsi k keu t m k g s m
oDr eu m dki k u g st k k g s k f v kt k h g &

I kof. kl j l hdle. kh

ft Kl dZgj dkyk i vZoPNkdyk i j esqj dhi tr dsf,
rSk gsk; kg t c m dki vZq] i j esqj dhdi kds kkm dk
eu i j esqj dsqj. kds kq ule ds kkt bkrkgcN [kqgs
tkkgSi tlu gsk tkkg D k dks rkyxrkgd vc ejkeu
i j esqj ds Eekgsk; k vc egs j esqj i tr gsk; k i j esqj
dsqj. kds kq ule ds kkt l dkeu elu x; k&

ule l f ft l dkeu&kfuv kAA

ukud frufg fuj tuq kfuv kAA 1/4 W&281 1/2

t c b dkeu ule dsl k, d gsk tkkgSi j 1/4 W&282
eqdy g uleheaeu ylu gsk tkkgS eu eat kfdl hdkH k
gqkgS kqk 1/2 qgl k kghpykx; k og 1/2 u 1/2 k yhqdj cN [k
gsk; k b dhdleuk j ok uk; t ktheu eat hi NAA eu ule
eayhu gsk; k ule&ulehdkv H gsm oDr ft Kl qk k i tr gshg&

pj u dey fl mfi v k#AA

ft l dki j esqj dsqj. kdey kds kkl; k g&

x# i j es#, dkst k kAA

t ksr l qk k s i j ok kAA 1/4 W&286 1/2

xq vS i j esqj nksugagksA bruk gh QdZgS HbZxq
gk k s k k j dyki j esqj gS og 1/2 j esqj 1/2 k j j fgr gS
vS dks QdZgS v k dks rkgcN xq ? k e&

t k : fi gfi v kfi xq ukudqgk mAA

rkrsv k mrr fl mrr qeyk mAA 1/4 W&140 1/2

og T; k La i 1/2 j esqj 1/2 ht xnxq cudj vk] vS rkdksZ

v̄k kuga og t̄ksn eadY ukv̄k h̄ḡog, d n̄f̄; kdhe; l̄kgs
 H̄bz̄d mudsf̄ rkdkule dY; kkpa R̄kv̄S elrkdkule fl̄rk
 R̄ka og ek̄d i nk̄ḡST; kf̄ La i dH̄hH̄hḡR̄ki skdykuga
 ḡskA og 1/4 kf̄ La i 1/2 xr xq cudj n̄f̄; kea d ck̄ crkus
 v̄k kga D kck̄ crk̄z n̄f̄
 , de , dalk# fuj kykAA
 ve# vt ksht kfr ut kykAA
 vxexxlp#: i qij skv̄kAA
 [k̄sr [k̄sr ?fV ?fV n̄f̄ skv̄kAA 1/4uk&833/2
 l̄kḡcejsk, dkgsA
 , dkgsA l̄kbZ dkgsA 1/4uk&350/2
 ejskbZoj , d ḡnskbZoj ejssugat cze Kluht kḡskgsog
 i j esoj : i ḡsk ga l̄jh l̄fV dk drkZageKluh ḡsk ga
 czeKluhdH̄ht le&ej . keaugat k̄kdH̄hHA og rksnf̄ kds
 i j l̄sdjk̄ dj ussfy, v̄k kga
 t ue ej . knggv̄fg ulght u i j m̄djk̄ hv̄k AA
 t hv̄ nk̄qstkr hykfu gj̄ fl̄ myf̄ feyk AA 1/4uk&749/2
 m̄l dkdkle i j esoj dsl k̄kt l̄kdkfeylkukḡskgsogv̄S dks
 m̄l dki zksu 1/2dl n̄f̄ ḡskA bl fy, &
 x# i j es#, dkst k̄kA
 t ksf̄ l̄kks l̄k j ok k̄kA 1/4uk&864/2
 dk̄sk̄ fruledj hokgxq !



I v^lekj I frxq i l^zkñAA

16

I k^sfBegy^kAA

i k^jc^zfe I k^t I okj v^kAA bgy g^Mxq nckj v^kAA
vundj g^dr ekr kAA i j e[#]t h^v dknk^r kAA qAA
I h^kfprofunk r^kAA
j k^kfg i \$ nk vi qsdhdkj t v^kf I okj AA j g^mAA
ejki h^laj m^dk^j hAA i jw dy ft fu k^j hAA
ukud I j. khv k^v kAA eu fp^{an}v kQy q k^v kAA

1/4uk&6271/2

I k^jh l^zir d^t k^j n k^j esj dj dsd^sksl fruleqJ h^kgxq!
I fruleq h^kgxq!!

I k^sfBegy^kAA
i p^e i k' k^gJ h^q vt^zn^t th^s g' kⁿm^p k^j. k^fd; kg&
i k^jc^zfe I k^t I okj v^kAA
i k^jc^ze us c d^t l p^j fn k^j vi uhdi kds k^t k^c d^t ' k^j
dj fn k[&]
bgy g^Mxq nckj v^kAA
; g^yg^M 1/4k^{1/2} g cP^oki j e^sqj usm^d j fn k^j i k^j dj fn k^A

Ýgoð NískcPøk t ßsNÍscPøsøksnckj rsXWV; kj dj r\$g
 Åi j dksñNkyrs&
 vundj gafí r ekr kAA
 ; gh1½q½ejskfirkgs; ghejsherkgsd ds½q d½l kf
 feydj vkuadjsa vcrkekr&frik Hhvkuadja
 i jeß#t hv dknrkAA qAA
 I Hht hokdknkk, d i j esoj gA
 I Hlukt hvkdkbdqkrkl kesfol fj utkAA 1½uk&2½
 I Ekkfrofunk r ejkAA
 frushitj gsi j esoj ! vki dsnk gA dcj] Auk t; ns]
 j fonk] ulens l c] gsi j esoj ! vki dkdlrjdj rsq&
 j Kkg i \$ nk vi qsdh
 vi usnk ledhrwki ghbTt f j [kkgs ulens dhbTt f j [kj
 dcj] dhbTt f j [kj Aksdhj [kj t; ns dhj [kj j fonk dh
 j [kj] cdhbTt f i j esoj rwki j [kkgs
 dkj t vki l okj AA j gkmAA
 muds j esoj usvk dle l pj &
 ejski zlaj midkj hAA
 ejski j esoj i j ksdjk dj usokykgS l c dks kulkuknskgS
 i kyukdj rkgS {kcdj rkg&
 i ju dy ft fu Akj hAA
 ft l usvZKDr Akj. kdhgs bZoj eai vZKDr g&
 ukud l j. khvkvkAA
 J hxq vt Zns t hdgrgsi j esoj ! eñjsh kj. keavk kg&
 eu fpñv kQyq kovkAA
 ckls fruleqj hafgxq! □