wØZxq Aa¨vq

gnvcÖjq

ZvwiL: 21 AvM÷, 2126| gnvcÖjq

¯’vb: c„w\_ex|

*c„w\_exi bvbv cÖv‡šÍ nZvkvq Av”Qbœ A‡bK¸‡jv gvbyl jyKv‡bvi †Póvq e¨¯Í| †KvwU †KvwU gvbyl AvkÖqnxb n‡q c‡o‡Q| †KD †KD cvwj‡q‡Q f~wgi Mfx‡i| AvkÖq wb‡q‡Q ¸nv ev Lwbi †`qv‡j| ‡KD Avevi mve‡gwi‡b †P‡c mvM‡i Wze w`‡q‡Q| ‡KD †KD †ec‡ivfv‡e Gw`K-‡mw`K †QvUvQzwU Ki‡Q| Z‡e AwaKvsk gvbylB nZeyw× I welYœ n‡q e‡m Av‡Q| A‡cÿv Ki‡Q †kl ciwYwZi R‡b¨|*

*AvKv‡ki A‡bK DuPz‡Z Av‡jvi GKwU eo †iLv †`Lv hv‡”Q| ïi‡Z ïay †`Lv wM‡qwQj nvjKv †avuqvi gy`y wewKiY| GKw`b †mUvB gnvk~‡b¨i ey‡K M‡o Zzjj dzUšÍ M¨v‡mi cÖPÐ NywY©| M¨v‡bi Ic‡ii w`‡K GKwU Kv‡jv, KzrwmZ I fqvbK wRwbm †`Lv hv‡”Q| a~g‡KZzwUi ÿz`ª gv\_v †`‡L Gi fqvbK aŸsmvZ¥K ÿgZv AvuP Kiv KwVb| †m‡K‡Û cÖvq Pwjøk nvRvi gvBj †e‡M GwU †a‡q Avm‡Q c„w\_exi w`‡K| cÖwZ †m‡K‡Û `k gvBj| jÿ †KvwU Ub eid I cv\_i k‡ãi mËi ¸Y †e‡M c„w\_ex‡Z AvNvZ nvbvi R‡b¨ cÖ¯‘Z|*

*†`Lv I A‡cÿv Kiv Qvov gvby‡li Kivi wKQzB †bB| Awbevh© cwiYwZi gy‡L c‡o weÁvbxiv eû Av‡MB †Uwj‡¯‹vc †\_‡K gyL mwi‡q wb‡q‡Qb| wbi‡e eÜ K‡i w`‡q‡Qb Kw¤úDUvi| `~‡hv©‡Mi mwVK AvPiY GLbI mwVKfv‡e †evS hv‡”Q bv| †hUzKz Rvbv †M‡Q, †mUvB GZ fqven †h Zv mvaviY gvbyl‡K Rvbv‡bv wVK n‡e bv| †Kv‡bv †Kv‡bv weÁvbx wU‡K \_vKvi wKQz c~Yv©½ †KŠkj ˆZwi K‡i‡Qb| wb‡R‡`i †UKwbK¨vj Ávb Kv‡R jvwM‡q Ab¨‡`i Zzjbvq myweavRbK Ae¯’vq \_vKvi B‡”Q Zv‡`i| †KD †KD `~‡h©vMwU‡K g‡bv‡hvM w`‡q ch©‡eÿ‡Yi †PóviZ| †kl w`bwU ch©šÍI Zvuiv Zvu‡`i mwZ¨Kvi weÁvbxmyjf AvPiY eRvq ivL‡Z Pv‡”Qb| c„w\_exi Mfx‡i ivLv UvBg K¨vcmy‡j cvwV‡q w`‡”Qb †m DcvË| D‡Ïk¨, fwel¨r eskaiiv hv‡Z †mUv Kv‡R jvMv‡Z cv‡ib|*

*msN‡l©i gyn~Z© AviI Nwb‡q Gj| mviv c„w\_exi jvL jvL gvbyl f‡q f‡q Nwoi w`‡K ZvKv‡”Q| †kl wZbwU wgwbU|*

*MÖvBÛ wR‡ivi wVK Ic‡i AvKvk we`xY© n‡q †Mj| GK nvRvi Nb gvBj cwigvY evqy Qz‡U †Mj GKw`‡K| GKwU kn‡ii AvKv‡ii †P‡qI †ewk cwigvY †avuqv KzÐwj cvwK‡q f~wgi w`‡K GwM‡q Avm‡Q| c‡bi †m‡KÛ c‡iB AvNvZ nvbj f~c„‡ô| `k nvRvi f~wgK‡¤úi mgvb AvNv‡Z †Ku‡c IVj c„w\_ex| ¯’vbvšÍwiZ evZv‡mi kK I‡qf D‡o hv‡”Q c„w\_ex c„‡ôi Iciw`‡q| †f‡O coj ¯’vcbv¸‡jv| hvB mvg‡b coj, wbwðý n‡q †Mj| msN‡l©i ¯’v‡bi Pvicv‡k mgZj f~wg‡Z GKwU e„ËvKvi Zij cvnvo ˆZwi n‡jv| D”PZv K‡qK gvBj| GK‡kv wgUvi PIov MZ© w`‡q c„w\_exi †fZ‡ii e¯‘ †ewi‡q Avm‡Q| MwjZ cv\_‡ii †`qvj †XD Zz‡j Qwo‡q co‡Q ax‡i ax‡i| G Zxeª AvNv‡Zi mvg‡b f~c„ô ‡hb mvgvb¨ GKwU K¤^j|*

*M‡Z©i †fZ‡ii jÿ †KvwU Ub cv\_i ev®úxf~Z n‡q †M‡Q| Zvi †P‡q A‡bK †ewk wQU‡K Ic‡i D‡V hv‡”Q| wKQz wKQz P‡j hv‡”Q gnvKv‡ki w`‡KI| Gi †P‡q †ewk cwigv‡Y wbwÿß n‡”Q Aa©-gnv‡`k GjvKv Ry‡o| Gici cwZZ n‡”Q kZ kZ, GgbwK nvRvi nvRvi gvBj `~‡ii GjvKvq| †hLv‡bB Zv co‡Q, NUv‡”Q gvivZ¥K aŸsmhÁ| wKQz wKQz wbwÿß c`v\_© wM‡q co‡Q mvM‡i| ‡mU †\_‡K ïiæ n‡”Q mybvwg| d‡j `~‡hv©‡Mi gvÎv AviI e„w× †cj| ay‡jvgq aŸsmve‡k‡li GKwU eo Ask evqygÐ‡j D‡V †Mj| m~h© cy‡ivcywi XvKv c‡o †Mj| m~‡h©i Av‡jvi gyL †`Lv hv‡”Q bv c„w\_exi †Kv\_vI †\_‡KB| Zvi e`‡j †`Lv hv‡”Q kZ †KvwU Dévi ˆckvwPK SjKvwb| Zxeª DËvc cvwV‡q Giv Sj‡m w`‡”Q gvwUi c„w\_ex| KviY wew”Qbœ LÐ¸‡jv gnvk~b †\_‡K †di wd‡i Avm‡Q evqgÐ‡j|*

Dc‡ii `„k¨cUwU GKwU Abygvb| my&BdU UvUj (Swift-Tuttle)bv‡gi GKwU a~g‡KZz 2126 mv‡ji 21 AvM÷ Zvwi‡L c„w\_ex‡Z AvNvZ nvb‡e| hw` †mUvB N‡U, ˆewk^K `~‡hvM© AeavwiZ| BwZ NU‡e gvby‡liI| 1993 mv‡j G‡K †`Lvi c‡i wnmve-wbKvk K‡i †`Lv †Mj 2126 mv‡j GKwU msNl© n‡”QB| c‡i ms‡kvwaZ wnmv‡e †`Lv hvq, GwU mßv‡ni R‡b¨ c„w\_ex‡K wgm Ki‡e| A‡íi Rb¨ evuPv| Avgiv Gi w`K †\_‡K wbwð‡šÍB \_vK‡Z cvwi| Z‡e wec` †h G‡Kev‡iB †bB Zv wKš‘ bq| AvR †nvK, Kvj †nvK, myBdU UvUj ev GiB g‡Zv †KD c„w\_ex‡Z AvNvZ nvb‡eB| wnmv‡e †`Lv †M‡Q, Aa©-wK‡jvwgUvi ev ZviI †ewk PIov `k nvRvi e¯‘i Kÿc\_ c„w\_exi Kÿc‡\_i Ici w`‡q †M‡Q| wekvj wekvj GB Dc`ªc¸‡jvi Rb¥ †mŠiRM‡Zi ewnt¯Í kxZj GjvKvq| wKQz wKQz n‡jv a~g‡KZzi aŸsmve‡kl| AvUKv c‡o Av‡Q MÖn‡`i gnvKlx©q evua‡b| Ab¨‡`i DrcwË MÖnvYy †eóbx‡Z (asteroid belt)| RvqMvUv g½j I e„n¯úwZ MÖ‡ni gvSLv‡b| Kÿc‡\_i fvimvg¨nxbZvi Kvi‡Y Giv wbqwgZ †mŠiRM‡Z Avmv-hvIqv Ki‡Q| AvKv‡i †QvU n‡jI G‡`i cÖwZwµqv fqsKi| c„w\_ex I Ab¨ MÖn‡`i ¯’vqx wec‡`i KviY|

G e¯‘¸‡jvi g‡a¨ A‡bK¸‡jvB c„w\_exi me¸‡jv wbDwK¬qvi A‡¯¿i †P‡qI †ewk ÿwZmvab Ki‡Z mÿg| †h-‡Kv‡bv mgq †Kv‡bv GKwU AvNvZ nvb‡Z cv‡i| ‡mUv gvby‡li R‡b¨ GKwU Lvivc LeiB n‡e| †mUv n‡e gvbe BwZnv‡mi GKwU AvKw¯§K I bwRiwenxb cÖwZeÜK| wKš‘ c„w\_exi †ÿ‡Î G iKg NUbv †gvUvgywU wbqg †g‡b P‡j| a~g‡KZz ev ¸nvYyi G gvÎvi msNl© M‡o K‡qK wgwjqb1 eQ‡i GKevi N‡U| A‡b‡Ki wek^vm, G ai‡bi GK ev GKvwaK NUbvi d‡jB mv‡o Qq †KvwU eQi Av‡M WvB‡bvmiiv wejyß n‡q wM‡qwQj| c‡ii evi nqZ Avgv‡`i cvjv|

A‡bK ag© I ms¯‹…wZi gvby‡liv Avigv‡MWb‡K2 `„pfv‡e wek^vm K‡ib| evB‡e‡ji *eyK Ae wiwf‡jkb* cy¯Í‡K G hy‡× msNwUZ nZvnZ Ges ÿqÿwZi fv‡jv GKwU weeiY †`Iqv Av‡Q| †mUv G iKg:

Gici Gj we`y¨Z PgK, eRªaŸwb I ¸o–g ¸o–g kã| mv‡\_ GKwU Zxeª f~wgK¤ú| gvbyl c„w\_ex‡Z cv †djvi c‡i GZ eo f~wgK¤ú Avi KLbI Avi N‡Uwb| GUv GZB Zxeª wQj| wewfbœ †`‡ki kni¸‡jv †f‡O coj| Øxc¸‡jv nvwi‡q †Mj| †`Lv hv‡”Q bv cvnvo¸‡jvI| AvKvk †\_‡K GKGKwU GK‡kv cvDÛ3 I‡Rv‡bvi wkjve„wó coj gvby‡li gv\_v Ici| wkjve„wói cÖ‡Kv‡c gvbyl Ck^i‡K MvjvMvj Ki‡Z jvMj| cÖ‡KvcUv Avm‡jB fqven wQj|

Aek¨B c„w\_ex AviI bvbv iKg cÖwZK~j NUbvi wkKvi n‡Z cv‡i| wecyj cwigvY e‡ji evua‡b cwie¨ß gnvwe‡k^i cyuP‡K GKwU e¯‘ GB c„w\_ex| GZ wKQzi c‡iI AšÍZ mv‡o wZb‡kv †KvwU eQi a‡i Avgv‡`i MÖnwU cÖvY avi‡Yi Dc‡hvMx wn‡m‡eB Av‡Q| Z‡e MÖnwU‡Z Avgv‡`i mvd‡j¨i †cQ‡b inm¨ wKš‘ gnvKvkB| A‡bKfv‡eB| wekvj k~b¨Zvi gnvmvM‡i Avgv‡`i †mŠiRMZ ÿz`ª GKwU mwµq AÂj| Avgv‡`i wbKUZg bÿ‡Îi (m~‡h©i c‡i) Ae¯’vb Pvi Av‡jvKel©4 `~‡i| GB `~iZ¡ KZ †ewk †mUv eyS‡Z n‡j GKwU welq gv\_vq ivL‡Z n‡e| m~h© †\_‡K gvÎ mv‡o AvU wgwb‡Ui g‡a¨ Av‡jv bq †KvwU wÎk jÿ gvBj c\_ †cwi‡q Av‡m| Pvi eQ‡i †Zv AwZµg K‡i 20 wUªwjqb (20 jÿ †KvwU) gvB‡jiI †ewk c\_|

m~h© GKwU Av`k© evgb bÿÎ| Ae¯’vb Avgv‡`i AvKvkM½v Qvqvc‡\_i (Milky Way galaxy) GKwU Av`k© AÂ‡j| G Qvqvc‡\_ bÿ‡Îi msL¨v cÖvq `k nvRvi †KvwU| KviI fi m~‡h©i K‡qK kZvsk| KviI KviI fi Avevi m~‡h©i GK‡kv ¸Y| Giv ax‡i ax‡i Qvqvc‡\_i †K‡›`ªi Pvicv‡k Nyi‡Q| Nyi‡Q Qvqvc‡\_ \_vKv cÖPzi cwigvY M¨vmxq †gN I ay‡jv, ARvbv msL¨K a~g‡KZz I MÖnvYy, MÖn Ges K…òMnŸiI| GB wecyj cwigvY e¯‘i Dcw¯’wZi K\_v ï‡b g‡b n‡Z cv‡i, Qvqvc\_wU eywS wewfbœ e¯‘ w`‡q Kvbvq Kvbvq fwZ©| G aviYv fzj| Avm‡j, Qvqvc\_wUi `„k¨gvb Ask cªvq GK jvL Av‡jvKel© cwigvY PIov| AvK…wZ n‡jv \_vjvi g‡Zv| †K›`ªxq AskUv GKUz ùxZ| G‡K wN‡i Qwo‡q Av‡Q K‡qKwU mwc©j evû| evûM‡jv Mov bÿÎ I M¨vmxq c`v\_© Øviv| GgbB GKwU mwc©j evû‡Z i‡q‡Q Avgv‡`i m~h©| †K›`ª †\_‡K GwU Av‡Q cÖvq wÎk nvRvi Av‡jvKel© `~‡i|

Avgiv hZ`~i Rvwb, AvKvkM½v Qvqvc‡\_ Lye e¨wZµgagx© wKQzB †bB| GKB iKg Av‡iKwU Qvqvc\_ n‡jv A¨v‡ÛªvwgWv| GwU Av‡Q Avgv‡`i †\_‡K wek jvL Av‡jvKel© `~‡i| AvKv‡ki A¨v‡ÛªvwgWv ZvivgÐ‡ji w`‡K Gi Ae¯’vb5| Lvwj †Pv‡L G‡K Svcmv ‡Qvc †Qvc Av‡jvi g‡Zv g‡b nq| wewjqb wewjqb bÿÎ mvwR‡q †i‡L‡Q Avgv‡`i `„k¨gvb gnvwek^| †Kv‡bvwU mwc©j, †Kv‡bvwU Dce„ËvKvi, †Kv‡bvwU Avevi wbw`©ó AvKvinxb| `~i‡Z¡i gvcvKvwV GLv‡b wekvj| kw³kvjx †Uwj‡¯‹v‡ci mvnv‡h¨ K‡qK wewjqb Av‡jvKel© `~‡ii Qvqvc\_I Avjv`vfv‡e †`Lv m¤¢e| †Kv‡bv †Kv‡bv †ÿ‡Î †Zv G‡`i Av‡jv Avgv‡`i Kv‡Q †cŠuQ‡ZB c„w\_exi eq‡mi (mv‡o Pvi‡kv †KvwU eQi) †P‡q †ewk mgq †j‡M †M‡Q|

GB wekvj ¯’v‡bi Dcw¯’wZi A\_© n‡jv gnvKv‡k msN‡l©i NUbv Lye †ewk N‡U bv| c„w\_exi me‡P‡q eo wec` jywK‡q Av‡Q Gi Av‡kcv‡kB| MÖnvYy‡`i Kÿc\_ mvaviYZ c„w\_exi KvQvKvwQ \_v‡K bv| G†`iv eo AskB g½j e„n¯úwZi gvSLv‡bi MÖnvYy †eóbx‡ZB \_v‡K me mgq| Z‡e e„n¯úwZi wecyj fi MÖnvYy‡`i‡K Kÿc\_ †\_‡K wQU‡K w`‡Z cv‡i| d‡j G‡`i †Kv‡bvwU †Kv‡bvwU m~‡h©i w`‡K P‡j Av‡m| †W‡K Av‡b c„w\_exi wec`|

Av‡iKwU wec` n‡jv a~g‡KZz| g‡b Kiv nq, `k©bxq G e¯‘M‡jvi DrcwË m~h© †\_‡K cÖvq GK Av‡jvKel© `~‡ii GKwU †gNcy‡Ä| GLv‡b †`vl e„n¯úwZi bq| `vqx eis wbKU¯’ bÿÎiv| Qvqvc\_ w¯’i e‡m †bB| ïay bÿÎ¸‡jvB Qvqvc\_ †K›`ª‡K cÖ`wÿY Ki‡Q bv, Qvqvc\_ wb‡RI ax‡i ax‡i AveZ©b Ki‡Q| m~h© Zvi m½x MÖn‡`i‡K wb‡q cÖvq 20 †KvwU eQ‡i Qvqvc\_‡K cy‡iv GKevi Ny‡i Av‡m| G hvÎvc‡\_ gy‡LvgywL n‡Z nq bvbv iKg AwfÁZvi| wbKUeZx© bÿÎiv a~g‡KZzi †gN‡K bvwo‡q w`‡Z cv‡i| wKQz wKQz a~g‡KZz ZLb wQU‡K Avm‡e m~‡h©i w`‡K| a~g‡KZziv †mŠiRM‡Zi †fZ‡ii w`‡K P‡j G‡j m~‡h©i DËv‡c G‡`i DØvqx c`v\_© ev®úxf~Z n‡q hvq| †mŠi evqyi av°vq GKwU j¤^v cÖevn ˆZwi nq| GUvB a~g‡KZzi weL¨vZ †jR| †mŠiRM‡Zi †fZ‡ii w`‡K P‡j G‡jI a~g‡KZzi mv‡\_ c„w\_exi msNl© nevi m¤¢vebv Lye Kg| Z‡e ÿwZ a~g‡KZzI K‡i| Z‡e Zvi †`vl wKš‘ c‡o c‡\_ †`Lv nIqv bÿ‡Îi Ici| Z‡e Avgv‡`i fvM¨ fvj †h bÿ‡Îi gv‡Si `~iZ¡ A‡bK †ewk nIqvq Ggb NUbv Lye †ewk N‡U bv|

Qvqvc‡\_i Pvicv‡k Nyi‡Z Nyi‡Z AviI wKQz e¯‘ Avgv‡`i w`‡K Avgv‡`i w`‡K P‡j Avm‡Z cv‡i| †hgb Qvqvc‡\_ †f‡m Pjv M¨v‡mi eo eo †gNcyÄ| Giv cÖPÐ wPKb n‡jI †mŠievqy‡K gvivZ¥Kfv‡e cÖfvweZ Ki‡Z cv‡i| cÖfvweZ Ki‡Z cv‡i m~h© †\_‡K Avmv Zv‡ci cÖevn‡K| AÜKvi gnvk~‡b¨ AviI bvbvb fqbvK wRwbm jywK‡q \_vK‡Z cv‡i| †hgb, wew”Qbœ Mn, wbDUªb bÿÎ, ev`vgx evgb, K…òMnŸi BZ¨vw`6| Givmn AviI A‡b‡KB Avgv‡`i ARv‡šÍB Avgv‡`i w`‡K †a‡q Avm‡Z cv‡i| †mŠiRM‡Z N‡U †h‡Z cv‡i UvjgvUvj Ae¯’v|

wec` AviI fqvenI n‡Z cv‡i| ‡Kv‡bv †Kv‡bv †R¨vwZwe©` g‡b K‡ib, m~h© nqZ GKwU wØ-Zviv7 RM‡Zi Ask| Avgv‡`i Qvqvc‡\_i AviI eû bÿ‡Îi Ae¯’vB Ggb| m~‡h©i cÖ¯ÍvweZ GB m½x ZvivwUi bvg †b‡gwmm| Z‡e GUv Avm‡jB †\_‡KI \_v‡K, GUv A‡bK †ewk Aby¾¡j| `~iZ¡ A‡bK †ewk| GRb¨B GLbI G‡K Lyu‡R cvIqv hvqwb| m~‡h©i Pvicv‡ki Kÿc‡\_ Gi MwZ axi n‡jI gnvK‡l©i gva¨‡g GwU Dcw¯’wZi Rvbvb w`‡Z cv‡i| gv‡S gv‡S `~‡ii a~g‡KZz‡`i MwZc\_ cv‡ë cvwV‡q w`‡Z cv‡i c„w\_exi w`‡K| cwiYwZ‡Z NU‡e G‡Ki ci GK mvsNvwZK msNl©| f~ZvwË¡‡Kiv †`‡L‡Qb †h wbqwgZ weiwZ‡Z eo AvKv‡ii ev¯ÍMZ (ecological) wech©i N‡U| GUv N‡U cÖwZ 30 jvL eQi c‡i GKevi|

AviI Mfxifv‡e ch©‡eÿY K‡i †R¨vwZwe©`iv Rvb‡jb, m¤ú~Y© Qvqvc\_ivB msNl© evuav‡Z cv‡i| AvKvkM½vi mv‡\_ Av‡iKwU Qvqvc‡\_i av°v jvMvi m¤¢vebv †Kgb? Ggb wKQz cÖgvY Aek¨ Av‡QB| bÿÎ‡`i `ªZ PjvPj †`‡L †evSv hvq, B‡Zvg‡a¨ AvKvkM½v Qvqvc\_ wbKU¯’ Qvqvc\_‡`i mv‡\_ msNl© K‡i b‡oP‡o e‡m‡Q| Z‡e wbKU¯’ `y‡Uv Qvqvc‡\_i msNl© evua‡jB †h Qvqvc\_ cwiev‡ii bÿÎ‡`iI wech©q NU‡e Ggb †Kv‡bv K\_v †bB| Qvqvc\_‡`i NbZ¡ GZ Kg †h bÿÎ‡`i g‡a¨ msNl© bv NwU‡qI Giv G‡K A‡b¨i mv‡\_ wg‡k †h‡Z cv‡i|

gnvcÖj‡qi Av‡jvPbv AwaKvsk gvbyl‡K gy» K‡i| Zvu‡`i Kv‡Q gnvcÖjq gv‡b c„w\_exi AvKw¯§K I `„wóKvov Dcv‡q c„w\_exi g„Zz¨| Z‡e ax‡i ax‡i †kl n‡q hvIqvi †P‡q nVvr g„Zz¨i g‡a¨B wec` Kg| A‡bK¸‡jv Dcv‡q c„w\_ex ax‡i ax‡i emev‡mi Abyc‡hvMx n‡q †h‡Z cv‡i| †hgb, ev¯‘ms¯’v‡bi µgvbebwZ, Rjevqy cwieZ©b ev m~h© †\_‡K Avmv Zv‡ci cwigv‡Yi GKUzLvwb ZviZg¨| f½yi c„w\_ex‡Z G¸‡jv hw` Avgv‡`i Aw¯ÍZ¡‡K ûgwKi gy‡L bv †dj‡jI Avivg-Av‡q‡ki Rxe‡b BwZ Aek¨B NUv‡e| Z‡e G ai‡bi cwieZ©b NU‡Z nvRvi nvRvi ev GgbwK jÿ jÿ eQiI †j‡M hvq| AvaywbK cÖhw³i mvnv‡h¨ gvbyl nqZ G¸‡jv‡K cÖwZ‡ivaI Ki‡Z cvi‡e| †hgb, bZzb K‡i ax‡i ax‡i eid hy‡Mi m~Pbv n‡Z \_vK‡jI Avgv‡`i m¤ú~Y© wech©q NU‡e bv| †mUv NUvi Av‡M mewKQz bZzb K‡i †X‡j mvRvevi R‡b¨ h‡\_ó mgq nv‡Z \_vK‡e Avgv‡`i| a‡i †bIqv hvq †h GKwesk kZvãx‡ZI cÖhyw³i Af~Zc~e© DbœwZ NU‡Z \_vK‡e| d‡j GUv wek^vm‡hvM¨ †h gvbyl ev Zvi eskaiiv µ‡gB RM‡Zi eo KvVv‡gvi wbqš¿Y wb‡Z cvi‡e| †VKv‡Z cvi‡e eo eo me `~‡hv©MI|

ZvwË¡Kfv‡e wK gvbyl wPiKvj †eu‡P \_vK‡Z cv‡i? nqZ cv‡i| wKš‘ Avgiv †`Le, AgiZ¡ AR©b Kiv †mvRv K\_v bq| nqZ †mUv Am¤¢eB| gnvwek^ wb‡RB †fŠZ m~‡Îi Aaxb| m~Î¸‡jvB Gi RxebPµ †eu‡a w`‡q‡Q: Rb¥, weeZ©b, Ges nqZ g„Zz¨| bÿ‡Îi wbqwZi mv‡\_ Avgv‡`i wbqwZ Awbevh©fv‡e Rwo‡q Av‡Q|

Abyev`‡Ki †bvU:

1. GK wgwjqb mgvb `k jÿ
2. evB‡e‡ji wbD †U÷v‡g›U Ask Abymv‡i c„w\_exi †k‡li w`‡K GKwU eo hy× n‡e| G hy‡×i gq`v‡bi mwZ¨Kvi ev cÖwZwK bvg n‡jv Avigv‡MWb|
3. GK cvDÛ mgvb 0.4536 †KwR| gv‡b, 100 cvDÛ mgvb cÖvq 45 †KwR|
4. Av‡jvi GK eQ‡i AwZµvšÍ `~iZ¡|
5. A¨v‡ÛªvwgWv GKB mv‡\_ GKwU Qvqvc\_ Ges GKwU ZvivgÐ‡ji bvg| gnvKv‡ki wewfbœ e¯‘i Ae¯’vb wbw`©ó Kivi R‡b¨ cy‡iv AvKv‡ki `„k¨gvb †MvjK‡K 88wU AÂ‡j fvM Kiv n‡q‡Q| Gi cÖwZwU‡K GK GKwU ZvivgÐj (constellation) e‡j|
6. G‡`i cwiPq I cv\_©K¨ †`Lyb cwiwkó As‡k|
7. eZ©gv‡b wØ-Zviv ev Wvej ÷vi ejv nq Ggb `y‡Uv Zviv‡K hv‡`i‡K c„w\_ex †\_‡K †`L‡Z Lye KvQvKvwQ g‡b nq| ev¯Í‡e Giv wb‡R‡`i †\_‡K A‡bK `~‡i Ae¯’vb K‡iI c„w\_exi AvKv‡k KvQvKvwQ Ae¯’v‡b \_vK‡Z cv‡i| Avevi n‡Z cv‡i Giv G‡K Aci‡ †K›`ª K‡i Nyi‡Q| GB wØZxq †ÿ‡Î G‡`i‡K evBbvwi ÷vi ev †Rvov Zviv e‡j| Av‡jvP¨ As‡k wØ-Zviv ej‡Z Avm‡j †RvovZviv‡K †evSv‡bv n‡q‡Q|