



188 2 2 1 1 1 1 2 8 FORT + 81 + 81 + 0 + 2 . 7 PERM সহাধান : প্রদন্ত ধারাচি একটি পুথোন্তর ধারা যার প্রদায দেখাও যে, 1<sup>3</sup> + 2<sup>3</sup> + 3<sup>3</sup> + 4<sup>3</sup> + ..... +10<sup>3</sup> 1.  $= (1 + 2 + 3 + 4 + \dots + 10)^{2}$  $\frac{1^3 + 2^3 + 3^3 + 4^3 + \dots + n^3}{1 + 2 + 3 + 4 + \dots + n} = 210$  হলে, n এর মান কত? 2. 128 + 64 + 32 + ..... ধারাটির নবম পদ কত ? 3.  $\frac{1}{\sqrt{2}} - 1 + \sqrt{2} - \dots$ ধারাটির কোন পদ  $8\sqrt{2}$  ? 4. একটি গুণোন্তর ধারার পঞ্চম পদ  $\frac{2\sqrt{3}}{9}$  এবং দশম পদ  $\frac{8\sqrt{2}}{81}$  হলে, ধারাটির তৃতীয় পদ নির্ণয় কর 5. 5 + x + y + 135 গুণোন্তর ধারা ভুক্ত হলে, x এবং y এর মান নির্ণয় কর। 6.  $\chi$ .  $1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \dots$ ধারাটির প্রথম আটটি পদের সমষ্টি নির্ণয় কর। 2 – 4 + 8 – 16 + ..... ধারাটির প্রথম সাতটি পদের সমষ্টি কত? 8. 9. 10. 11. 2 + 4 + 8 + 16 + .....ধারাটির n সংখ্যক পদের সমষ্টি 254 হলে, n এর মান কত? 12. 1 মিটার দৈর্ঘ্য বিশিষ্ট একটি লৌহদণ্ডকে 10টি টুকরায় বিভক্ত করা হল যাতে টুকরাগুলোর দৈর্ঘ্য গুণোত্তর 13. ধারা গঠন করে। যদি বৃহত্তম টুকরাটি ক্ষুদ্রতম টুকরার 10 গুণ হয়, তবে ক্ষুদ্রতম টুকরাটির দৈর্ঘ্য আসন্ন মিলিমিটারে নির্ণয় কর। = 2009- = 2008X = 2010

य त्रेगी ज तो -0.2 उन्ने एक हाम प्राह्म प्राहम प्रशास्तिर अखुः 47 (031 mm = a + (n-1)d. \*n my = 31312 = n g 2a+ (n+)d? # (a+p) + (a+p) + (a+p) +Note = n. (a+P) # dtoltoltol. na オわれて えて、 ろういちろ हा रेमिन, Q= 22131 मार d= आर्मिव 12mi, n= 1, 2, 3 --- , n= m ST32DV, Alle

# 2+4+6+8+10+12+14+16+18=90 12 1351 AT STS 2131, 71 9 9 16 10 10 10 m 635 m = 18 160 m (b(-m) ) muz उम्हार्य = 90 is care Han ינה מנים בהם אתו היא אתו ובטור , אבטר איני मउग्रान्त्र हैं। महाद रही हे हि महाद महाद क max, manz 1220, 25312: 1+2+3+--+100 (-1) + (-2) + (-3) - - + (-100) - 24 27.1+2+3+-+P++100= tin The or we gan w d too more (avera - ) / mm ? 315A 2. m- 221 m [ 0. m - 2. m 2 2 m

Jewel's Care Hand Note

& STATIA MAT CIT, S= & {20 + (n-1)d? अध्यमानः जात रातिः गरं रहेग न प्रतास दिया इन्हाल्ड्य दीर्याय गढा मार्ग = a पारः n mina आहारि = S  $\overline{\mathcal{M}}_{3} = \overline{\mathcal{M}}_{3} = S$ S = a + (a+d) + (a+2d) + - + + (p-2d) + (p-d) + pन्वारीठ क्रम विद्वित्रमार जातिता भारे. S=P+P-9d)+(P-2d)+...+ (a+2d) + (a+d) + a...(i) उन्होरिकार्स (1) (3 (11) (भारा कार, S = a + (a + d) + (a + 2d) + - - + (p - 2d) + (p - d)S = P + (P - d) + (P - 2d) + T = t (a + 2d) + (a + d) = a + d)-3r, 2S = (a+p) + (a71925=n(a+P) .... (III)

(यात्राय काह्य स्टर्ग के न्द्र - हे न्द्र नहीं काह्य काहाय Cent misp=nozran and and star . The P= (a+m=1)d more sense · · p. (17 3177 (iii) 70, 353 700 25185, 25 = n fa+a+(n-1)d}  $T_{n} S = \frac{n}{2} \left[ 2a + (n-1)d \right]^{2} \left[$  $S + . : S = \frac{1}{2} \left( 2a + (n - 1)d^{20} + (b + 0) + 0 = 3 \right)$ En of (23m2 2) of not offinit 383 (ma (hsta) + ... + (bs-9)+ (ba - 9)+ = 2 FISITZOSA (i) (3 (ii) (271517-51-81  $\frac{1}{2} = 2 + (2 - 2) + (2 - 2) + (2 - 2) + (2 - 2) + 2 = 3$ - 31/21200 (DIDA, d= 7+0) + (9+0) = 2.200 95-37 (Atp) ....

of toll spie আহায় জ্যানি, n mys 31312 = 3 220+ (n-1)d7 0 ·· 29 n n = 22 { 2×11+(29-1)7} = <u>29</u> f 22 + 28×7] = 29 8 22 + 1967 Care Hand Note = 22 × 218 = 29×109 E=b(1-10+)3161-00 29 मामुर उन्हार्य = 3161 Any: 3161. t-d=n2

चित्र क्रीन ती? THIS, 2 = 5्राहारत चिम्छर, d= 3 हाहा राषिः, दावारीत् १७३१ एम = 383 -31, a+ (n-1) d = 383 [n-631 mm33] ar, 5+ (n-1)3=383 -2r, (n-1) 3 = 383-5 -7n, n-1 = 378 す,カー1=12万 m. n=126+1

Jewel's Care Hand Note

Ar, n=12, 2 10000 (11) 05105 (1) 10000 · Snanta 127 00 74 -3.83 5 Care Han Am. 127 6 + 00-? ट्रम्डिय़ किल्द्र, Jeners काठा के कि का मा = m² Canziar antas norman in =n2 37311052 STATE M 635 PM = , a+ (m-1)d (13°, ~ ~ ~ ~ ~ ~ ~ = a+ (n-1)d · · Dazzaro, aubi (111933 OH (n-1)d = n2 sutrem 'm a+nd-d=n2. .... (ii)

3751 2000 (i) 72120 (ii) FRENST JOES, atmot-d=m2 set somers CARENT CAMP Zr. d (m-n) = (m+n) (m-n) Tr,  $d = m + n \begin{bmatrix} -300, 1033(2, (m-n)) \\ 31707 & CM = 0 \end{bmatrix}$ d = m + n.: Franks (m+n) (31 m = a+(m-+n-1)d lochig the = ~ ~ = atmdthed = a+md-d+nd=  $m^2+nd$  [(i) 79, 575) transfer =  $m^2+m^2$  [(i) 79, 575) tra 5n-b-br+ - m2+mn+n2

 $(m+n)(\sigma_3)\eta_{T} = m^2 + mn + n^2$ Ans: m2+mn+n2 ce= mins 3-2=1 Jewel's Care Hand Note 3 जग्मत, . देग्वारि अवले उाझान्द्र दीर्ग, 2112, 225 VM, a=1 n 635 mi = at (n-1)d · DAD316, a + (n - 1)d = 9971, 1+ (n-1) 1=99 -2n, (n+1) = 997115 : Mar Zn, n+1= 98

#### Jewel's Care Hand Note

2n, n = 99, - m + m + m = 2mft· : n=99 FUTURE 8 िगाउग्रा जार्भन, n min? 31312 = 2 222+(n-1) d}  $\therefore 99 \ u = 2 \left\{ 2 \times 1 + \left( 9 \right) - 1 \right\}$ = <u>99</u> 22798×12 5° = <u>99</u> {2+98}  $the = \frac{199}{2} \times 100$ 002)99×50 · 7-4950, Anj: 42500 @ =11-M.B

ma DULLE ノーモー 3-1=2 5-3=2 ारि वाला जिलाकुन दीरात है गार. 225 MA, a=1 3= De आर्थने विखित्र के किया . दीवगीरन n मामने उक्तमिर = WERLEN DO IS Care Hand Note name

(5) mmas 11 - 5 = 617-11=6 17-11=6 : ईरब्ली जिसी जिस्तालुड दान्ग, ZIR, DITA 27 MM, a = 5 1 = 10, MM 766 Sugar consisted = 6 source asigue To 2031 Pm = 59 10 1 5 105 भाषाया उगत, , Care Hand Note nG31 m 2 at (n-1)d 2310. 1 97 (n-Dd = 59  $\frac{77,5+(n-1)6}{77,(n-1)6} = 59$ -1 = 54

. DMCa an, n= 9+1 25-22=-41 01=n, n521-25=-4 01=n. CANTER STATE STONER AND STATES. n myz 3.13/2 = 2 (2a+ (n-1)d) · 10 1 1 = 10 {2× 5+(10-1)6} ES-== 5 { 10+9767  $= 5 (0+54)^{2}$   $= 5 \times 64$  = 320 (-Dhy:) 320Q-= (154 (1) ar, (n-1)(-4) = -23

6 202M (7) 1+6 = U.M 25-29=-4 01=11,15 21-25=-4 01=11-. : द्वारारी चरती आहार दाहा? . .... AND STATE & SMA RE {3(1-03-112122) Gross, d= -4" 01 ... 93° n 631 m = -23 - विगाझार उल्लान, n 631 m = a+ (n-1) d · 2703310, at (n-1) d = -23 1010 7, 29+ (n+1) (-4) = -23 Tr, 29 + (++1) (-4) = -23  $7n_{p}(n-1)(-4) = -23 - 23$ 

 $Tr_{n}(n-1) = -\frac{52}{-4}$ Zn, n= 13+1 Tr, n=14  $\frac{dtoeleng}{f=n \overline{s}, \overline{s},$  $b_{11} = \frac{14}{2} \left\{ 2 \times 29 + (14+) E_{11} \right\}$  $z = \frac{2}{58} + \frac{13}{58} + \frac$ Ans: 42

7 मत ताह, उन्हालुर दार्गीर - 221 मम = a 3115100 CATOBS = d Jewel's Care Crezar Omis, 331032 STATE 12 631 20 = 77 - Canziar 30773 3731753 STATA N 631 MM = CI+(n-1)d (h(1-10)+2) = all 12 u Th = a+ (12-1)d HI = N N N= atlld. · C. Constantos a + 11d = 77 - - - (i)- काहारू जगत, n आर उग्रास्ट =  $\frac{1}{2}$  (20+ (2-1)) 

= 23 {2 (a+1)} = one E ang Ean Sizur ]  $=\frac{23}{2} \times 154$ = 23 × 7 7 = = = 766 5 11518 = 1775-0-0-145 · 23 MAD 313MA = 1771 Hand Ano: 1771, Jewel's Care 8 74(321 -62M2; - दीर्बाह (2013r n मानुन 575 मिन = n(n+1 ろれる でんて、 ant n=1 201, 217702 1 mm = 1(1+1)=1x2=2 · n= 2 u u 2mm? SI3M2 = 2(2+1) = 9×3=6

- n=3 2[~1, 3 mys 312/2 = 3(3+1)=3×4=12 ×154 ~ . 3-103% Staufes 322 NN = 25 4 225 U = 6-2=4 и 625 и 712-6-6 u 821 14 = 20-12=8 grant : 2+4+6+8+ (10) 21(32, r 6M3, PM29+7-+5-+--- 817 2. 7771572 to a = - 12/24 (1+3) 5= JANER = 5(041)

- जार्ग्रेट खर्मार जाहार गाहा गर गहा 2113, 33r Mr. 0=9 ATTRA COR52, d= 12 - 10 ats care hands CANBIAN BARAS 6=(1441-1201-10)-10-M31921720 mm & SISTAL = 2 Statland? · CPOTANOS  $\frac{n}{2} \left\{ 2x^{2} + (n-1)d \right\} = -144$   $\overline{n}, \frac{n}{2} \left\{ 2x^{2} + (n-1)(-2) \right\} = -1444$ r, n ~ {18 + -2n+2} = -144 Tr.n \$ 20-2n7 = -144 WE WITH RUE 8- - W JACK JUL EUS.

 $\frac{7}{2} \left\{ 2 \left( 10 - n \right) \right\} = -144$ TN, MX2 (10-n) = -144 - F-2 1 Fr, n (10-n) = 144 From Smons Tr, 10n-n2 = -144 (= 10. NN 156 5TR 7, -n2+10n+1944=00000 BORTR Tr,-(n2-10n-144)=0 FME  $7n, n^2 = 10n - 144 = 0$   $7n, n^2 = 18n + 2n$ Jewel's Care Hand Note -3, n= 18n+8n-2445008 -7, n(n-18)+8 (n-18)=0 TN, (n-19) (n+8)=0+ exer 5.05 ·· 724. n-18 = 0 torson, -- 0 n+8=0 Zr, n=18= 10 - 2, n=-80 tag in som n -- 8 300 1 24

a. 1+ (n-1) 2 = 125 81ENE · (alder n-10 300 218, 5 Hm: 18,501 = 1 3139795= 1+3+5+7+--+++25 (बग्रास) Care Hand 3-1=2 5-3=2 **Jewel's Construction** Stank agate Stanesz Star, 3351 M, A = 1Sharper Oregan d = 221723 (930 n 631 m 2125 िग्राका उल्लि,  $n_{03} m = a_{+}(n_{-1}),$  $n_{03} m = a_{+}(n_{-1}),$  $a_{+}(n_{+1})a = 125$ 

Tr, 1+ (n-1) 2 = 125 Fr. (n-1) 2= 125-1  $7_{N}, n-1 = \frac{124^{0}}{9}$ Jewel's Care Hand Note W, n = 62+11-1 オ, れ=63 -"-n=63 विगाउँग उगनि, n norto 31312 = n (20+(n-1))  $:63 u u = \frac{63}{2} \int \frac{2}{2} [\frac{2}{2} + \frac{1}{63} + \frac{1}{2}] 2$ 2310 7- 2 [2+62× 2] 2 63 5 2 +124]  $10+50 = 100 - 63 \times 126$ AL-12-83×63

=3969 3-001-000 = 31PM 08/00-- 1+3+5+7+ - +125=39695- (j) Gravas = 169 + 171+173 + ... + 209 (mma), 173-171=2 - जिमे जरगीर उत्तरमान्द्र राहर, जनहार्थ. 2mr,  $ch = 169^{n} \times 10^{n}$ 371 81221 (21053- od = 2  $\begin{array}{l} (33^{\circ}, n (53), \pi n = 20^{\circ}) \quad \text{care }, \\ (33^{\circ}, n (53), \pi n = 20^{\circ}) \quad \text{care }, \\ \textbf{Jeweis care }, \\ \eta (53), \pi n = 20^{\circ}, \alpha + (n-1)d \end{array}$ - : 2727320: × (n-Vd = 20) m, 169+(n-1)2=209

Tro to (n-1)2 = 209-169 Calle (U-32) mel = + 40 + F+2+E+1 :  $\overline{a}, n = 20 + 1 + 1 + 01 = (000)$   $\overline{a}, n = 21$  -n = 21 1 = 21 1 = 21 1 = 21विगाउनि उलनि n mus 313/2 = 2 22a+(n-1)d? :21 n n = 21 52×169+(21-1)2 = 21 2338+20×23 = 21 6338+403  $b(1-10) + 0 + 0 = \frac{21}{2} \times \frac{189}{328}$ - 21 × 189 67605.

(169+171+173+...+209=3969--(1))उन्होरिक्ट्र () () () () जिल्ला राहर, 1+3+5+7+---+125= 169+171+173+--+209, D3M (Showed) and the (1) awel's Care Hand Not

Jewel's Care Hand Note

Organtaral - 9.2 \* n (535 mm = a.q.n-1  $\alpha$  n  $m_{1,2}$   $= \frac{\alpha (q^{n}-1)}{q-1} [am_{1,2}, q)$  $a n m n = 313172 = \frac{\alpha(1-q^n)}{1-q}$  [2mm], qui  $at | +2+3+--+n = \frac{n(n+1)}{2}$  $\# 1^2 + 2^2 + 3^2 + \dots + n^2 = n(n+n)(2n+1)$  $\alpha + \left[\frac{3}{2} + 2^{3} + 3^{3} + \dots + n^{3} = \int \frac{n(n+1)}{2} \right]^{2}$  $= \frac{n^2 (n+1)^2}{4}$ a= 225 मा, P= (2012 मिन्द, q= 31131225 forgmor , n=misigner, nozim = compan Jewel's Care Hand Note

Eng 5 rstore काइला उल्ला, भ उन्द्रमात उत्तादाप्तित उन्द्रमहार्य  $\omega(a) = \frac{3}{2} \frac{3}{2} \frac{3}{2} \frac{n(n+1)}{2} \frac{1}{2} \frac{2}{2}$  $\frac{1}{2} \frac{n(n+1)}{2} \frac{2}{2} \frac{n(n+1)}{2} \frac{2}{2} \frac{2}{2} \frac{1}{2} \frac{$  $\overline{Ty}_{0} = \frac{7}{2} \frac{(n+1)}{2} = \frac{(15)^{2}}{(15)^{2}}$  $Zr_{0} = \frac{n(n+1)}{2} = 15$ s Care Hand Note す, か(れ+1)=30 - Tr, n2+n-30=0  $7r_{0}n^{2}+6n-5n-30=0$ aron (n+6) - 5 (n+6) = 0 Tr. (n+6) (n-5)20

61212r, 2213 2-5-00 n+6=0  $\exists r, n=-6$   $\exists r, n=5$   $\exists r, n$ ··n= 5 ग अग्राहा आधारिक अग्राहा कार्यात आज्य- $= \frac{n(n+1)(2n+1)}{(3+6)(2n+1)}$   $= \frac{5(5+1)(2x5+1)}{6} (m-42) = 3073 = 7(3)$   $= \frac{5\times6\times11}{6} (m-42) = 3073 = 7(3)$ = <u>030x111+15</u> 6 2<u>330</u>(FM 2<u>6</u> 6 0(-m2-m2)(-m

34788 201 (532,N 6M2, = आताय होताय हेडा Mh.a= 125 245 mm = 251 602 : दार्गीत शब्ध्य मा = ag 5100 = 224  $= 125 \times (\frac{1}{5})4$   $= 125 \times (\frac{1}{5})4$ = = 1250x - 625 जागरित सरो गर्भ = ag6-1 = 19162 09,5 1(e-)-1) = N = 125×15 = 125×3

125 2 x1 - MOUSAR DM = 5005 2520 m = 25 d F E Ans: 1 = 25 1000 Care Hand Note 389 anna, jewel's  $\frac{-6}{12} = \frac{12}{-6} = -2$ 1- र्यात्री प्रतार अहमन् अताउव दाता. 2723 - 221 VM , CL = 3 3nara Gramo 2 = -2 21 EATERAR SINA,  $n m \pi 3 3 3 \pi 2 = \alpha (1-9^n) [3 2 2 2 1 ]$  1-9 [9 2 1]2(-1)[0] = n = 3(1 - (-2))0]PEX 691 =

3 [ ] - 1024] -1023 -10231 भूमी आपर 3 . <u>Ano:</u> -1023, 200  $= \frac{1^{3} + 2^{3} + 3^{3} + 4^{3} + \dots + 10^{3}}{5^{6} (10+1)} + \frac{1^{2} + 2^{3} + 3^{3} + \dots + 10^{3}}{1 + n^{3} - \frac{5n(n+1)}{2}}$ 313-1292 = \$ 5× WIND NONT B ENT = 302581-St-1 -20

 $\begin{array}{l}
\left(5n\pi n^{2}, \\ (1+2+3+2(1+--+1))^{2} \\
= \left(1+2+3+2(1+--+1))^{2} \\
= \left(1+2+3+2(1+-+1))^{2} \\
= \left(1+2+3+2(1+-+1)\right)^{2} \\
=$  $= 25\times1172$  ECOI --- = 2552 = 3025, = 1000 Mote = 3025, = 1000 Mote ろろいろう = でしていろううう  $(13+2^{3}+3^{3}+1)^{3}+--+10^{3}=(1+2+3+4+--+10)^{2}$ 2) - UIG218 GM 51 X2 3 - $\frac{1^{3}+2^{3}+3^{3}+24^{3}+\cdots+1}{1+2+3+4+\cdots+1} = 210$ 

 $\frac{\binom{n(n+1)}{2}}{\binom{n(n+1)}{2}} = 210^{10}$  $\frac{n(n+1)^2}{2} \times \frac{n(n+1)^2}{2} = 210$  $\frac{n(n+1)}{2r} = 210$ Tr, n2+n=420 Zr, n2+n-420=0 3° Tr, n2-121n-20n-420=00  $1 - \frac{7}{3}, n(n+21) - 20(n+21) = 0$ Rr, (n+21) (n-20)=0 (=)

3128+64+32+ --- Stanta 7031 mi? ろろれるれる  $\frac{27777}{64} = \frac{64}{128} = \frac{32}{64} = \frac{1}{2}$ -: देखार उट्टी उद्याउट दीवर, 2113, 225 mm, a= 128 mp m -3ngrad Gigmos 2 = 1 STA BARS - March Mark 0 = thanks nozr m = agn-1 2----- (n-1) ucienic= ag 9-1  $\frac{(1)}{2} \times 821 = \frac{1}{2} \times 10^{10}$   $\frac{1}{2} \times 821 = \frac{1}{2} \times 10^{10}$   $\frac{1}{255} \times 821 = \frac{1}{2} \times 10^{10}$   $\frac{1}{255} \times 10^{10}$   $\frac{1}{2} \times 10^{10}$ 

· Franka aver um = 1/01-) on Ans: 2' - a (av) and  $\frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{\sqrt{2}} = \sqrt{2}$   $\frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{\sqrt{2}} = \sqrt{2}$   $\frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{\sqrt{2}} = \sqrt{2}$   $\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$   $\frac{2\pi^{3}}{\sqrt{2}} = \frac{1}{\sqrt{2}}$ 312 312 012 110,9 = - V2 00 इगत दगर्दे, ananta n. 631 m = 8 V9 -OTIBIAN 3Mas apprend  $nG_{3} m = aqn-1$ -i = 2222020, agn-1 = 872E) C 548 = NR Ro 12 X (-V2) n-1 = 8V9

STOP A DYR Tro (-V2) n-1= 8V2XV2 Tr, (V2)n-1 = 8× (V2)2 ₹r, (-vz)n-1 = 8×2 The (-V2) n-1 = 16 F, 1-V2)n-1 = (-V2)8  $\overline{\mathcal{A}}_{n} n - 1 = 8$   $\overline{\mathcal{A}}_{n} n = 8 + 1$  -n = 9 1 = 9  $1 = 10^{10} \text{ Care Hand Note of the second sec$ -: 213mes 931 mi = 812, E Trazir tamps, 

आत कार्य, 3)(ताउँव दार्गीत कर vm = a 3181701 DIZMO = 9,00 6-17317 3mar. 5312732 Stars n 631 2m = agn-1 - : MODER M = 213\_00.0 7m aqui = 2V3 ... aqui = 2V3 ... aqui = 2V3 ... -- (i) Care Hand Hote : MOOR Mr = 1812 BI R, QQ10-1 -20, aq201 = -8V2 81  $: cq^2 = \frac{8V_2}{81} = -- (11)$ 

(ii) as standinger (i) as continuer forst  $\frac{aq^2}{8q^2} = \frac{8v^2}{81}$   $\frac{qq^4}{9v^3}$ THE RETER 7, 99-4 = 8V2 X 9  $\frac{3r}{295} = \frac{4\sqrt{2}}{9\sqrt{3}}$   $\frac{3}{7r}, 2^{5} = \frac{2^{2}\sqrt{2}}{3^{2}\sqrt{3}}$  $7r_{9}2^{5} = \frac{(\sqrt{2})^{4} \times \sqrt{2}}{\sqrt{3}}$  $7r_{9}2^{5} = \frac{\sqrt{2}^{5}}{\sqrt{3}}$  $7r_{9}2^{5} = \frac{\sqrt{2}^{5}}{\sqrt{3}^{5}}$ Tr, 95 - (V2)500 N, 9, 2 V2, 0,0-(ii) -: 01/2 200.

2-42 3177 (i) 73 31317 m वषुष 213 Tax 213 213 Tr, a 35 ar, Cor 219 29N-1

ER 25 (1) 15118 01-5  $\frac{3}{\sqrt{3}} \frac{1}{\sqrt{3}} \frac{1}{\sqrt{3}$ - जारामेंड क्रीय मा = Hmy: 17310 05 6 24621 6m32, Stand = 5+n+y+135 2073; 247 m,a=0.5 247 m,a=0.5 247 m,a=0.5 02r m,a=0.5 8240 m,a=0.5 1000 m,a=0.5 1

1-50 monand 821 Moran = 2 2 24-1 38x2 5 8 1 1 2 2 2 3 = 5×93 - 5×9 2593 1222220(5) $5q^3 = 135$ 7r, 93 = 135 7, 93 2 27 7r, 93 = 33 mand Note 7r, 93 = 3 Hand Note 3 2=3 Jewel's Care Hand Note -: 53(2037 grants 221 m. 22927 N &= DE ONCEREZIAQUE Active 5×36ne 215

: 5312133 21310 grohn mg y=ag3. = ag3 2 5×32 ~ 5×9 245 - in-215 - 200 116R66) y=245 - 202 America 15, 45, And Note 12, 45, 45, 50 12, 45, 50 12, 45, 50 12, 50, 45, 50 12, 50, 45, 50 12, 50, 45, 50 12, 50, 45, 50 12, 50, 45, 50 12, 50, 45, 50 12, 50, 45, 50 12, 50, 45, 50 12, 50, 45, 50 12, 50, 45, 50 12, 50, 45, 50 12, 50, 45, 50 12, 50, 45, 50 12, 50, 45, 50 12, 50, 45, 50 12, 50,-: जरि जकरि अताउउ रेकिंग 2003, 220 man a= man reverse :-318124 Gidmo , 9= = 2 1 CANSIST SALAS

53 तारा रेगरा n mus 3 2002 = (1-2) BITZ == n8 N 8 N n 1-(2)8 h 11 S- = P. CMR FO 15515 11256 SEME NEILES al's Care Hand No E AMOIZE N = 255 x 2 = 255  $=1\frac{127}{128}$ : Om The muse 312 = 1 127 Ans! 1-127

Jewel's Care Hand Note

7 7 PM = 861 Ans: 86, ज्यात्रात्र कीर्यादेव रहा मा o A 1239 OF TOMAS - 22 MER 1 - - 119 120 (11-2) - जर चर्मा उद्याय Sir, 73 347 75 0.2 = 1930 3137 0.2 = 1200,0 - आद्राक उलान-· (2n+1) n n +3lage Ē

BN22,2n+1 12m2  $\frac{1-(-1)}{12} = 19611$ -17313 310n 198 : 646 ]+[ 7 = D = 211 125 - 5 JAP Jewel's Care 103 -: Signiz (2n+1) [031 m=11 North SENDER AMER 9 10) CT(321) 62M2; This STRING = 622 + 624 = log 2+ log 22 2 1022 2, = ~ ~ ~ ~ (HAP): 2, log 2 - log 2 = log 2

3-leg 2 - 2 log 2 = log 2 5 mar () . : जो परनह उत्तर मेग, 2m3; der mr, a = log2 31/2122 10-10525 d = log2 16 CATERA SING SING STATE उग्राहर हम्मार हार्गरे राहार्ट्स = n (2a+(n-1)0/35 months 1-190 - 200 10 0 10 10 10 2 2 X log \* (10+) = 5 p 2 log 2 + 9 log 2 Jewel's Care Hand Note & 52 50 2002 --: france young anna sand 2 2 55 log 21 R.

1) - 22ma, scol = egol - egol 11-12 2024 -201 10- $2n_{2},$   $2n_{2},$   $2n_{3},$   $2n_{$ उमार्डाद्ध किन्द्रालक, 2 = 2 schor cazo n Gar m = 384 - CARBIAN - STRAGE- MOLACED or the dree Franks n Gar m = agn-1 Malano, + soil agn -1 = 384 Scal TRX GX 2n-1 = 384 Scotta 2n-1 2 384 formant of 2 Make 62 Mark --1 7 27-1 = 26

a, n-1=6 PULLED a, n=6t/ S===== - : n= 7. - O-1717 3017, 02 3000 300 . Signes from non to share =  $\frac{a(q^{1}+1)}{q-1}$   $\therefore u u q q u u = \frac{b(q^{1}+1)}{q-1}$ 6 £ 128 - 1<sup>2</sup> 2 6 × 127 : Starts 3 3012 = 762, Ams! 762. 12) CUBAN COMES 2+41+8+16-- Stants n 31520170 MUZI STENZ = 254 Tr. 2/2n-1) = 254

anna, 4= 8= 2 1td = 110 -: जर्भ जर्मा आहा आहा.  $2m_{2}$  $\partial dr m, a = 2$  $\exists n \exists r a org mo, q = 2$ िगाजना उलक  $n \operatorname{Reputs interints = \frac{\alpha(q^{-1})}{q_{-1}}$ [2)] Bore - 2000mg, and Note  $7, \frac{2(2n-1)}{2-1} > 254$ ar, <u>+2(2n-1)</u> = 254 7, 2(21-1) = 254

7, 2n-1 = 254 Moltebal R= EUMO 7, 2n= 128+1 व्हाद्दार्थंडे a, 2n = 128 -3, 2n = 27 काहारा जगतिः -: N=2 -: N=2 -: N=2. - farahr n-233177 = 7, 5250. N N C (TD) Any: 7, I's Care Hand Note