

MAHATMA GANDHI UNIVERSITY

B.Tech/res-3/2011

P.D.Hills, dated 30.09.2011

NOTIFICATION

It is hereby notified that the results of semester VI (regular), Semester IV(regular), B.Tech degree examinations, May 2011 and results of supplementary(**prior to 2008 admissions**)(SI&II,SIII,SIV,andSV) B.Tech degree examinations, May 2011 is published.

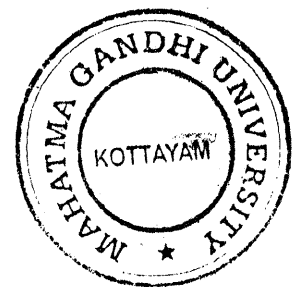
Applications for revaluation of answer scripts in the prescribed form along with fee of Rs 500/- per paper, and applications for scrutiny of answer scripts in the prescribed form along with fee of Rs 100/- per paper should reach the office of the Controller of Examinations on or before **29.10.2011**.

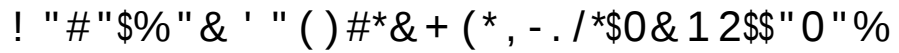
Results of supplementary(**2008 admissions onwards**)(SI&II,SIII,SIV,andSV) B.Tech degree examinations, May 2011 will be published seperately.


Controller of Examinations

Copy to,

1. Principals of Colleges concerned.
2. PRO (for arranging press release).
3. University information centres.
4. EA.I sn.
5. AR.XX.
6. Pool Officer,Tappal sn.I
EJ.I,IX, and X sections.
- 7.File copy.

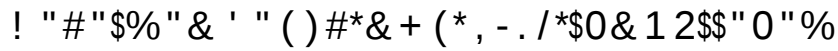




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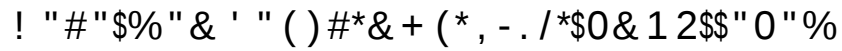
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<=KRSMKONP	<=KRKMQRPP	<=KS=MKOSP	<=KS;MN=RP
<=KSQMK=;P	<=KSNMQ<QP	<=KO=MNLSP	<=KO;MKQOP
<=KOLMQK<P	<=KOSMQKOP	<=KOKMKSNP	<=KQ<MK=NP
<=KQ;MQNRP	<=KQSMN<=P	<=KQOMNLKP	<=KQKMON=P
<=KQNMQS=P	<=KK<MQQQP	<=KK=MKROP	<=KKRMQ=QP
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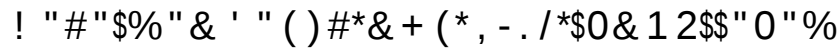
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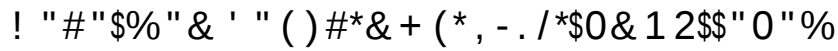
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; <<SQ=MQNQP	; <<SQ; MKSQP	; <<SQLMK<OP	; <<SQRMN=<P
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; <<SQNMQOOP	; <<SK<MNR<P	; <<SK=MNKKP	; <<SK; MKKOP
; <<SKLMKNQP	; <<SKRMK; LP	; <<SKSMNSQP	; <<SKOMKS=P
; <<SKKMNLP	; <<SKNMKQRP	; <<SN<MN<<P	; <<SN=MN=QP
; <<SNLMK=RP	; <<SNRMKS=P	; <<SNOMK<NP	; <<SNKMKSQP
; <<SNNMKLKP	; <<O<<MKQ<P	; <<O<=MKL=P	; <<O<; MN=KP
; <<O<RMKNLP	; <<O<SMN; <P	; <<O<OMKONP	; <<O<KMK<LP
; <<O<NMN<; P	; <<O=; MQOKP	; <<O=LMQKOP	; <<O=RMN=LP
; <<O=SMK<=P	; <<O=OMKKSP	; <<O=NMQQKP	; <<O;; =MKRNP
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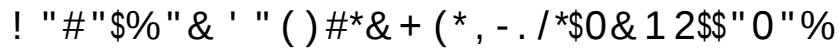
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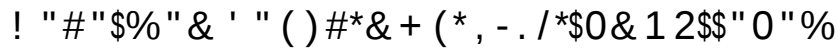
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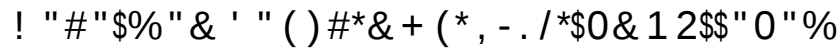
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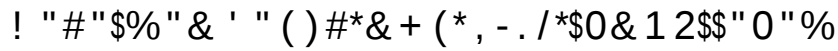
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; <<<<NMNLLP	; <<<<=MKNKP	; <<<==MQROP	; <<<=SMKRNP
; <<<=OMKSNP	; <<<=QMKNKP	; <<<=KMQQRP	; <<<=NMKKKP
; <<<; <MQ; <P	; <<<; =MQQLP	; <<<; ;MK=OP	; <<<; LMKOSP
; <<<; RMNRRP	; <<<; SMKOLP	; <<<; OMK=<P	; <<<; QMQQSP
; <<<; KMKS RP	; <<<L<MN=LP	; <<<L=MK=LP	; <<<LLMNQLP
; <<<LRMKOKP	; <<<LSMQSLP	; <<<LOMNQ;P	; <<<LNMKS=P
; <<<R=MKR=P	; <<<RLMK;RP	; <<<RRMN=SP	; <<<RSMK;=P
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; <<<S=MN<=P	; <<<SLMKKQP	; <<<SSMN;QP	; <<<SOMK;SP
; <<<SQMQQ;P	; <<<SNMQO<P	; <<<O<MKLQP	; <<<O;MKQLP
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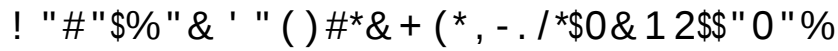
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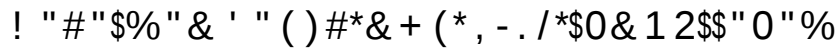
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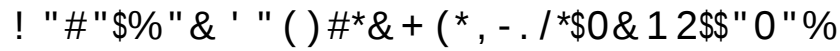
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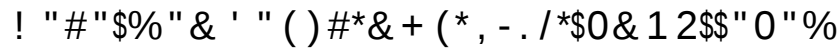
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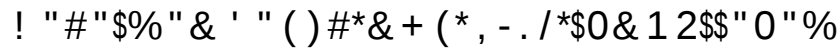


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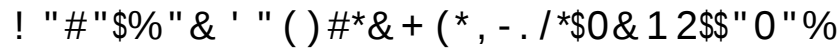
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<S<<SM=<RSP	<S<<OMKNLP	<S<<KM=<<KP	<S<<NM=<OLP
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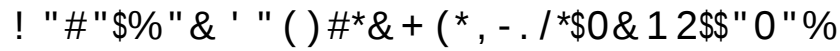
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7# ' # 8FG;0&&H'1;+41;D;=F+> ;1; *3 ;+I ;=B1<+J=<D&0'<?+K/**;?; 3!



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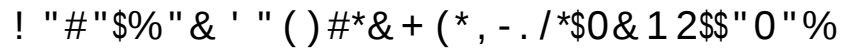
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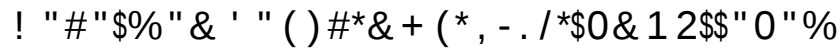
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T@F'/?@!@0?'ABCC4D4'B* '9@E@D494E0'@E2'04A?EBCBDV
/+681,H'4%"1&+(871# '@8I'A(. . \$8716&7(8'48378""+783

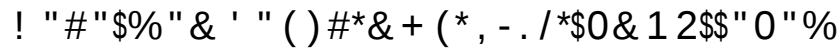
```

!      ;<;;==
!      $      (
!      ;<;;=;
!      "      $      &      (
!      ;<;;=L
!      "      #      $      %      &      (
!      ;<;;=R
!      "      $      &
!      ;<;;=S
!      "      #      $      &      (
!      ;<;;=O
!      $      &      (
!      ;<;;=Q
!      "      $      %      &      (
!      ;<;;=K
!      "      $      &      (
!      ;<;;=N
!      (
!      ;<;;<
!      "      $      (
!      ;<;;=
!      $      &      (
!      ;<;;L
&
!      ;<;;R
!      "      $      &      (
!      ;<;;S
!      "      #      $      %      &      (
!      ;<;;O
!      $      &
!      ;<;;Q
!      "      #      $      %      &      (
!      ;<;;K
(
%109.33;

```

[illegible]

@/3A<&B+('<=8*1&+! "#\$%#& '+!/-*C;0&+B&D&)/A&B+E?+()^+ , -./01/2/3)45/6+0' /- 50;^+ 7# '#8fG;0&&H'1;+41;D;=F+> ;1;^3 ;+I ;=B1<+J=D&0'<^?+K/^*;*?;3l



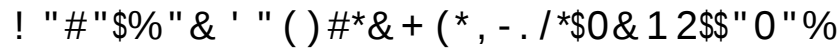
T@F'/?@!@0?'ABCC4D4'B* '9@E@D494E0'@E2'04A?EBCBDV
/+681,H'4%"1&+(871# '@8I'A(. . \$8716&7(8'48378'" "+783

! ;<;;N					
\$	%	&	(		
! ;<;;L<					
#	\$	%	&	(	
! ;<;;L=					
"	#	\$	%	&	(
! ;<;;L;					
"	#	\$	%	&	(
! ;<;;LR					
\$	&	(			
! ;<;;LS					
"					
! ;<;;L0					
"	#	\$	%	&	(
! ;<;;LQ					
(					
! ;<;;LN					
"	#	\$	%	&	(
! ;<;;R<					
\$	(				
! ;<;;R=					
\$					
! ;<;;R;					
"	#	\$	%	&	(
! ;<;;RL					
#	\$	%	&	(	
! ;<;;RS					
"	#	\$	%	&	(
! ;<;;RK					
#	\$	%	&	(	
! ;<;;RN					
"	#	\$	&	(	
! ;<;;S<					
\$	(				

[illegible]

\$''

@/3A<)&B+('<=8*1&+!"#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?++()*, -./01/2/3)45/6+0' /-50;*+ 7#'#8fG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<J=<D&0'<*?+K/**;?;3l
--



T@F'/?@!@0?'ABCC4D4'B* '9@E@D494E0'@E2'04A?EBCBDV

J@J4!'J@--

! " # \$ % & (

! " \$ % & (

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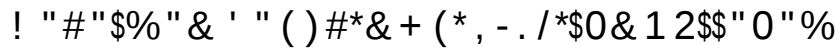
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00000000000000000000000000000000 ( <="
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7)6+.)33/.0)*0#\$\$-5:6-+:)6;

%&'()*+,-./:0*1+2&3&'*&0+4+5&6+7&80&&+9:;3<=;*</=+>;?;\$!"#

\$\$

7#'#8fG;0&&H'1;+41;D;=f+>;1;.*3;+I;=B1<+J=<D&0'<^?+K/**;?;3L



T@F'/?@!@0?'ABCC4D4'B*!9@E@D494E0!@E2!04A?EBCBDV
--

J@J4 ! ' J@ - -

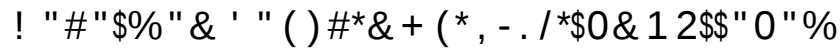
&

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[illegible]

\$M

7#'#8FG;0&&H'1;+41;D;=f+>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3L



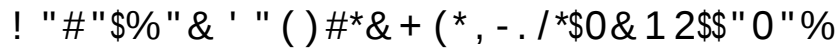
9 @ ! ' / @ - 4 C F B - ' F E - 0 F 0 > 0 4 ' B * ' 0 4 A ? E B C B D V ' @ E 2 ' - A F 4 E A 4

- 4 9 4 - 0 4 ! ' J @ - -

; <RR=NMQSOP	; <RR; <MKLQP	; <RR; =MK; NP	; <RR; SMNO<P
; <RR; OMNN=P	; <RRL<MQ; OP	; <RRLRMQSQP	; <RRLSMN=OP
; <RRL<MKL<P	; <RRLQMK; NP	; <RRLNMN<RP	; <RRR<MKORP
; <RRRLMKKQP	; <RRRRMKQSP	; <RRROMNRSP	; <RRRQM<QOP
; <RRRNMKLQP	; <RRS<MNKOP	; <RRS; MNSSP	; <RRSLMON; P
; <RRSOMQR; P	; <RRSKMKOSP		

[illegible]

@/3A<)&B*('=>+1&+! "#\$%#&' +/ -.*C;0&+B&D&)/A&B+E?+() *+, -. /01/2/3)45/6+0' /-50,'*
7# ' #8FG;0&&H'1;+41;D;=F>;1; *3;+I;=B1<+J=<D&0'<?+K/**;?;3!



9 @ ! ' / @ - 4 C F B - ' F E - 0 F 0 > 0 4 ' B * ' 0 4 A ? E B C B D V ' @ E 2 ' - A F 4 E A 4
/ + 6 8 1 , H ' 4 % " 1 & + (8 7 1 # ' @ 8 I ' A (. . \$ 8 7 1 6 & 7 (8 ' 4 8 3 7 8 " " + 7 8 3

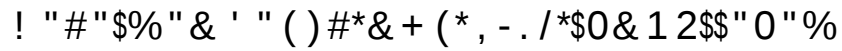
```

; <RR==
! " $ & (
; <RR=;
! " # $ % & (
; <RR=L
$ &
; <RR=R
! $ &
; <RR=0
! $ &
; <RR=Q
! " $ & ' (
; <RR=K
! " # $ & (
; <RR;;
! & (
; <RR;L
! " $ % & ' (
; <RR;R
! " $ & ' (
; <RR;Q
! " & (
; <RR;K
! # & (
; <RR;N
! " &
; <RRL=
! " # $ & ' (
; <RRL;
&
; <RRLK
! " $ % & ' (
; <RRR=
! " # $ & ' (
%109.33;

```

[illegible]

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ;0&+B&D&)/A&B+E?++ () * + , - . /01/2/3)45/6+0 ' /- 50 ' , * + 7 # ' # 8fG ;0&&H ' 1 ;+41 ;D ;=F+ > ;1 ; * 3 ;+I ;=B1<+J =D&0 ' < * ?+K / * * ; ? ; 3l
--



9 @ ! ' / @ - 4 C F B - ' F E - 0 F 0 > 0 4 ' B * ' 0 4 A ? E B C B D V ' @ E 2 ' - A F 4 E A 4

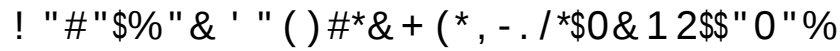
J@J4!'J@--

!	"	\$	&	(	
;<RRRS					
!	&	'	(		
;<RRS=					
!	"	\$	%	&	'
;<RRSS					
!	"	#	\$	%	& (
;<RRSN					
!	#	\$	&	'	
;<RRO<					
!	"	#	\$	&	'
;<RRO=					
#	'				
;=;KLR					
!	#	\$	%	&	' (

[illegible]

\$P

7#'#8fG;0&&H'1;+41;D;=f+>;1;^3;+I;=B1<+J=<D&0'<^?+K/**;?;3L



FE 2F! @'D@E 2?F'ABCC4D4'B*!4E DFE44!FE D'*B!'GB94E

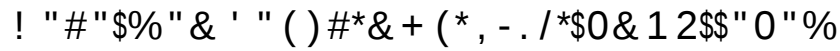
-494-04!'J@--

<RQN;MQQSP	<RQNLMN<=P	<RQNRMQNSP	<RQNOMQKOP
<RQNQMRLP	<RQNKMQSQP	<RQNNMQN<P	<RK<<MQRQP
<RK<LMNQ=P	<RK<QMK=NP	<RK<KMQ=QP	<RK<NMNQ=P
<RK=<MKNKP	<RK==MOK<P	<RK=LMK;;P	<RK=SMKL<P
<RK=NMKSSP	<RK;<MQR;P	<RK;=MK<KP	<RK;LMON=P
<RK;SMN<;P	<RK;QMOQOP	<RK;KMQO<P	<RK;NMQORP
<RKL<MN<QP	<RKLRMQN;P	<RKLOMOQQP	<RKLNMK=KP
<RKR=MK<=P	<RKR;MQKKP	<RKRNMOKKP	<RKS<MN=QP
<RKS;MQSKP	<RKSOMKQRP	<RKSMMQQ=P	<RKSNMQ=NP
<RKO<MKS RP	<RKO;MKLLP	<RKORMK=QP	<RKOSMKOQP
<RKOOMKO=P	<RKQOMK;SP	<RKONMN;QP	<RKQ=MK=KP
<RKQ;MK=SP	<RKQLMKQKP	<RKQQMQNL P	

[illegible]

\$Q

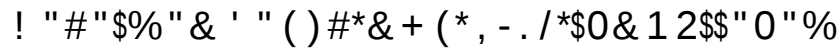
@/3A<)&B*(' <=8+1&+! "#\$%#& ' + / - * C ; 0&+B&D&)/A&B+E?+() *+, - ./01/2/3)45/6+0' / - 50;'+
7# ' # 8FG;0&&H'1;+41;D;=F> ;1; *3 ;+I;=B1<+J=<D00'<?+K/**;?;3|



```
FE 2F! @'D@E 2 ?F'ABCC4D4'B*!4EDFE44!FED'*B!'GB 94E
/+681, H'4%"1&+(871# '@8I'A( . . $8716&7(8'48378""+783
```

! ;<RQN=	"	\$	&	'	(
! ;<RQNS	"	#	\$	%	&
! ;<RK<=	"	\$	%	&	'
! ;<RK<;	"	\$	%	&	'
& ;<RK<S	(				
! ;<RK<0	"	#	\$	&	'
! ;<RK=;	"	\$	%	&	'
! ;<RK=R	"	#	\$	&	'
! ;<RK=0	"	#	\$	%	&
# ;<RK=Q	\$	&	'	(	
! ;<RK=K	\$	&			
! ;<RK;;	"	#	\$	&	'
! ;<RK;R	"	#	\$	&	'
! ;<RK;0	"	#	\$	'	(
! ;<RKL=	"	#	\$	&	'
# ;<RKL;	\$	&	'		
! ;<RKLL	"	#	\$	'	(
%109:33;					

[illegible]



```
FE 2F! @'D@E 2 ?F'ABCC4D4'B *'4E DFE44!FE D'* B !' G B 9 4E
/+681, H'4%"1&+( 871# '@8I'A( . . $8716&7(8'48378""+783
```

; <RKLS

; <RKLQ

; <RKLK

; <RKR<

; <RKRL

; <RKRR

; <RKRS

; <RKRO

; <RKRO

; <RK RK

; <RKS=

; <RKSL

; <RKSS

; <RKSQ

; <RK0=

; <RK0L

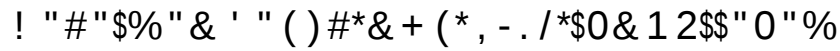
; <RKOK

```
%109:33;
```

[illegible]

\$\$

7#'#8FG;0&&H'1;+41;D;=F+>;1;^3;+I;=B1+J=<D&0'<?+K/**;?;3|

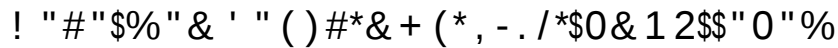


```
FE 2F! @'D@E 2?F'ABCC4D4'B *'4EDFE44!FED' *B!' G B 9 4E
```

J@J4!'J@--

! " # \$ % ' (

7#'#8FG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1+J=<D&0'<?+K/**;?;3L



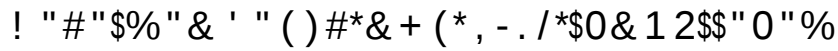
@2F'-?@EX@!@'FE-0F0>04'B*4EDFE44!FED'@E2'04A?EBCBDV'X@C@2V

-494-04!'J@--

; <=NN=MKK<P	; <=NN; MNQ<P	; <=NNLMQ==P	; <=NNRMQL=P
; <=NNKMQ<QP	; <=NNNMN=RP	; <; <<<MN<SP	; <; <<=MQLRP
; <; <<; MNSOP	; <; <<LMKKNP	; <; <<RMKQOP	; <; <<SMNOQP
; <; <<OMNKL P	; <; <<QM QK; P	; <; <<KMQN<P	; <; <= <MQORP
; <; <==MKQ; P	; <; <=; MQS; P	; <; <=RMKL RP	; <; <=SMN=QP
; <; <=OMQSNP	; <; <=QM NLLP	; <; <=NMKNNP	; <; <; <MNQNP
; <; <;; MQQNP	; <; <; LMK; =P	; <; <; RMQ==P	; <; <; OMNKL P
; <; <; QMQRS P	; <; <; KMK=RP	; <; <; NMK=LP	; <; <L<MN; NP
; <; <L=MN=RP	; <; <LLMK=OP	; <; <LRMN; RP	; <; <LOMN<<P
; <; <LKMKNP	; <; <LNMN; NP	; <; <R<MK<KP	; <; <ROM=<=SP
; <; <RQM QSNP	; <; <RKMQN=P	; <; <S<MNRNP	; <; <S=MKORP
; <; <S; MNR<P	; <; <SLMK<NP	; <; <SRMK<LP	; <; <SOMNO<P
; <; <SQMKLKP	; <; <SNMKORP	; <; <O=MQQNP	; <; <O; M=<LKP
; <; <OLMKQQP	; <; <ORMNK=P	; <; <OSMK=NP	; <; <OOMKRNP
; <; <OQM Q; SP	; <; <OKMKKL P	; <; <ONM=<; <P	; <; <Q<MKQOP
; <; <Q; MK=<P	; <; <QLMKQOP	; <; <QRMN=OP	; <; <QQMKSLP
; <; <QNMQNQP	; <; <K<MKQOP	; <; <K=MKKKP	; <; <K; MKO; P
; <; <KRMQKOP	; <; <KSMKQNP	; <; <KOMNL; P	; <; <KQMKLKP
; <; <KKMNSNP	; <; <KNMNLSP	; <; <N<MKLOP	; <; <N; MK; <P
; <; <NLMNRS P	; <; <NRMKRRP	; <; <NSMKNSP	; <; <NQMK<OP
; <; <NKMKN=P	; <; <NNMK<<P	; <; <= <MNRNP	; <; <= <LM=<<QP
; <; <=RMNRLP	; <; <=OMQKQP	; <; <=QM KRKP	; <; <= <KMQKL P
; <; <=NMQNLP	; <; <= <M=<<<P	; <; <=; MNRQP	; <L<O; MKQKP

[illegible]

@/3A<&B*('<=8+1&+!'#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?+()*+, -./01/2/3)45/6+0' /-50,'*
7#'#8FG:0&&H'1;+41;D;=F>;1: *3;+I;=B1<+J=<D00'<?+K/**;?;3!



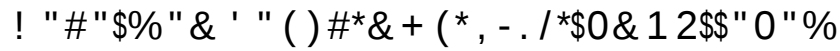
| @2F'-?@EX@!@'FE-0F0>04'B*!4EDFE44!FED'@E2'04A?EBCBDV'X@C@2V|
/+681,H!4%"1&+(871#!@8I'A(. . \$8716&7(8'48378""+783

! ;<=NNS	"	\$	%	&	'	(
" ;<=NNO	&	'	(			
! ;<=NNQ	"	(				
& ;<;<<N	'					
" ;<;<=L	&	'	(			
! ;<;<=K	"	#	\$	%	&	(
! ;<;<;=	"	&	'	(		
! ;<;<LS	"	#	\$	%	&	'
! ;<;<LQ	"	#	&	'		
! ;<;<R=	"	#	\$	%	&	'
! ;<;<R;	"	#	&	'	(	
! ;<;<RL	"	#	\$	%	&	
! ;<;<RR	"	%	'			
! ;<;<RS	"	#	\$	&		
! ;<;<RN	"	#	\$	'	(	
! ;<;<SS	"	#	\$	%	&	(
! ;<;<SK	'	(				
%109:33;						

[illegible]

%&'()*+,-./:0*1+2&3&'*&0+4+5&61+7&80&&9:;3<=;*</=++>;?;\$!"

@/3A<)&B+('<=8*1&+! "#\$%&# '+!/-*C;0&+B&D&)/A&B+E?+(()*, -. /01/2/3)45/6+0' /- 50,*+ 7# ' #8fG;0&&H'1;+41;D;=f+>;1;*3;+I ;=B1<+J=<D0'<?+K/**;?;3l



| @ 2 F ' - ? @ E X @ ! @ ' F E - 0 F 0 > 0 4 ' B * ' 4 E D F E 4 4 ! F E D ' @ E 2 ' 0 4 A ? E B C B D V ' X @ C @ 2 V |

J@J4!'J@--

! # \$ % (

! " # \$ % ' (

" \$ & ' (

! " \$ & ' (

! " # \$ % ' (

; < ; < KL

$$; < ; < N =$$

! # \$ & (

& (

$$; < ; = < <$$
$$; < ; = < ;$$

! " \$ % & ' (

! " # \$ % & ' (

$$j < j' \implies$$

" \$ (

II %

OK<=<

\$

$$0K \leq R$$

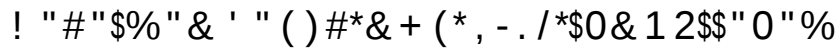
" \$

11 %

[illegible]

MM

7#'#8FG;0&&H'1;+41;D;=F>;1;^3;+I;=B1<+J=<D&0'<^?+K/**;?;3L

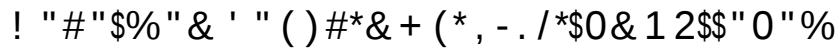


| @2F'-?@EX@!@'FE-0F0>04'B*!4EDFE44!FED'@E2'04A?EBCBDV'X@C@2V|
/+681,H!4%"!&+(871#!@8I'A(. . \$8716&7(8'48378""+783

11

[illegible]

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?++()*,,-./01/2/3)45/6+0'/-50;'+
7#'#8F&G0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



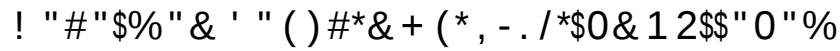
```
@ 9 @C'TVB0?F'4E DFE44!FE D''ABCC4D4'XBBU@JJ@CCV'X@ETF!@J@CCV
/+681,H'4%"1&+(871# '@8I'A( . . $8716&7(8'48378'" "+783
```

```

; <=0<L
!      "      $      &      '
; <=0<0
!      "      $      %      &      '      (
; <=0==
!      "      '      (
; <=0=;
#      $      &      '
; <=0=R
!      &      (
; <=0;<
!      "      #      $      %      &      '
; <=0;=
!
; <=0;L
!      "      #      %
; <=0;N
!      "      $
; <=0L=
!      "      $      %      &      '      (
; <=0L;
!      (
; <=0LR
!      "      #      &      '      (
; <=0LS
!      "      %      &      '      (
; <=0LK
!      "      #      $      %      &      '
; <=0LN
!      "      #      %      &      '      (
; <=0R<
!      "      '      (
; <=0RR
!      "      '      (
%109:33;

```

!"#\$%&'()*+,-./0123456789:;<=>?@AB	MP
CD EFGHIJKLMNOPQRSTUVWXYZ[\]^_`a b c d e f g h i j k l m n o p q r s t u v w x y z { } ~	

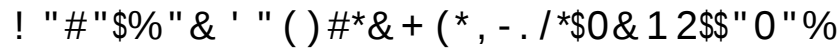


```
|_ @ 9 @C'TVB0?F'4E DFE44!FE D''ABCC4D4'X BBU@JJ@CCV'X@ETF!@J@CCV
|_ /+681,H'4%"1&+(871# '@8I'A( . . $8716&7(8'48378""+783
```

[illegible][illegible]

MQ

@/3A<)&B+('=<8*1&+! "\$%#& ' +'/-*C;0&+B&D&)/A&B+E?++()*, -. /01/2/3)45/6+0' /-50;*+ 7# ' #8fG;0&&H'1;+41;D;=F+> ;1;*3;+I ;=B1+J=<D&0'<?+K/**;?;3l



@ 9 @C'TVB0?F'4E DFE44!FE D''ABCC4D4'X B BU@JJ@CCV'X@ETF!@J@CCV

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1. **Identify the subject and predicate of each sentence.**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

11-211

1. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

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1. "Q, K

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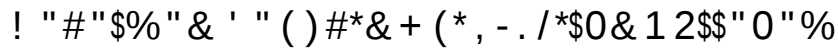
7#'#8FG;0&&H'1;+41;D;=F+>

MR

!""!#\$!"" %&'()*+, -./ (0*1+2&3&'&0+4+5&61+7&80&&+9.; 3<=;'</=++>;?+\$!"" MR

@/3A<)&B+('≤=8+*1&+!"#\$%#&'!+!/-*C:0&+B&D&)/A&B+F?++(')*+,-./01/2/3)45/6+0'/'-50:~+

7#'#8FG;0&&H'1;+41;D;=F+>;1;^3;+I;=B1<+J=<D&0'<^?+K/**;?;3L

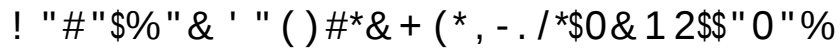


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|_ @ 9 @C'TVB0?F'4E DFE44!FE D''ABCC4D4'X BBU@JJ@CCV'X@ETF!@J@CCV
|_ /+681,H'4%"1&+(871# '@8I'A( . . $8716&7(8'48378'" "+783
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\$

[illegible]

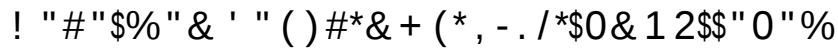
@/3A<)&B+('<=8+*1&+ !"# \$%#& ' + ' / - * C ; 0&+B&D&)/A&B+E?+ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 ; * +
7 # ' # 8 F G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D & 0 ' < ? + K / * * ; ? ; 3 L



@ 9 @C'TVB0?F'4E DFE44!FE D''ABCC4D4'X BBU@JJ@CCV'X@ETF! @J@CCV

11

@/3A<)&B+('=<8*1&+!"#\$%&'+'/-*C;0&+B&D&)/A&B+E?+()*)+,-./01/2/3)45/6+0'/-50;*+7#'#8fG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D0'<?+K/**;;?;3l



A@@! 9 4C'4E DFE44!FE D'ABCC4D4'J4!FE@2>'!@EEF

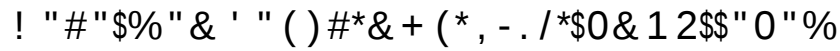
-494-04!'J@--

<;KS=MKOOP	<;KSLMK;SP	<;KSNMKKSP	<;KO<MKKQP
<;KORMQQNP	<;K00MKQ<P	<;KOQMKLLP	<;KONMKKSP
<;KQ<MKKLP	<;KQLMN<=P	<;KQRMNS<P	<;KQSMQQKP
<;KQQMNRQP	<;KQNMKRKP	<;KK=MN<<P	<;KKS MK==P
<;KKQMKS<P	<;KKKMN;SP	<;KN<MQSSP	<;KNLMNKR P
<;KNR MNOKP	<;KNSMQQKP	<;KNQMKNLP	<;N<=MONNP
<;N<RMQN=P	<;N<SMKQLP	<;N<QMK<SP	<;N<KMNQQP
<;N<NMK<;P			

[illegible]

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@/3A<|&B*('=>+1&+! "#\$%#& ' + / - * C ; 0&+B&D&)/A&B+E?+()) * , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 ' ; +
7 # ' # 8 F G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D 0 ' < ? + K / ** ; ? ; 3 l



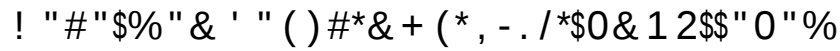
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A@@! 9 4C'4E DFE44!FED'ABCC4D4'J4!FE@ 2>'!@EEF
/+681, H'4%"1&+( 871# '@8I'A( . . $8716&7(8'48378""+783

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! ;<;KSS	"	#	\$	%	'	(
" ;<;KS0	\$	%	&	'		
" ;<;KSQ	\$	'				
" ;<;KSK	'	(				
! ;<;K0=	"	%	&	'	(	
! ;<;K0;	"	#	\$	&	'	(
! ;<;K0L	"	#	\$	%	&	'
! ;<;K0S	"	\$	&	'	(	
! ;<;K0K	"	#	\$	&	'	(
\$;<;KQ=	&	(				
\$;<;KQ;	'	(				
! ;<;KQ0	\$	(				
! ;<;KQK	"	\$	'			
! ;<;KK;	"	\$	%	&	(	
! ;<;KKL	"	\$	%	&	'	(
%109.33;						

[illegible][illegible]



A@@! 9 4C'4E DFE44!FE D'ABCC4D4'J4!FE@2>'!@EEF

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424!@C'FE-0F0>04'B-AF4EA4'@E2'04A?EBCBDV'9BBX@EE>!'

@ E D @ 9 @ C F

/+681, H'4%"1&+(871# '@8I'A(. . \$8716&7(8'48378""+783

- 4 9 4 - 0 4 ! ' J @ - -

<;<;<;<;MN;QP	<;<;LQ=MKQ;P	<;<;LQLMQONP	<;<;LQRMQO;P
<;<;LQSMK;LP	<;<;LQOMQQQP	<;<;LQQMQKOP	<;<;LQKMNRKP
<;<;LQNMNORP	<;<;LK<MK=<P	<;<;LK;MKOKP	<;<;LKLMKKOP
<;<;LKRMMQLP	<;<;LKQMKNRP	<;<;LKKMQQ=P	<;<;LKNMNLPP
<;<;LN<MNN<P	<;<;LN=MQSLP	<;<;LN;MKLOP	<;<;LNLMQQLP
<;<;LNRMN<;P	<;<;LNOMKNKP	<;<;LNNMKR=P	<;<;R<<MKLSP
<;<;R<;MKORP	<;<;R<LMNNNP	<;<;R<SMKO=P	<;<;R<OMQRS
<;<;R<QMKG;P	<;<;R<KMKLSP	<;<;R<NMKG;P	<;<;R=<MNOKP
<;<;R=LMK<SP	<;<;R=RMKKNP	<;<;R=SMQO<P	<;<;R=OMKRKP
<;<;R=QMK;;P	<;<;R=KMKQLP	<;<;R;=MKS	<;<;R; ;MKOKP
<;<;R;LMKOQP	<;<;R;RMQ;RP	<;<;R;SMKOLP	<;<;R;OMKNKP
<;<;R;QMK;P	<;<;R;KMNRQP	<;<;R;NMN==P	<;<;RL<MKN=P
<;<;RL=MKLOP	<;<;RL;MKR;P	<;<;RLRMONLP	<;<;RLSMNL
<;<;RLOMKROP	<;<;RLQMKNRP	<;<;RLKMKSNP	<;<;RLNM=<<OP
<;<;RR<MKLKP	<;<;RR=MQQOP	<;<;RR;MKQ<P	<;<;RRRMQONP
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<;<;RSLMKN=P	<;<;RSRMQKSP	<;<;RSSMKS=P	<;<;RSOMKLS
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<;<;RQOMQQRP	<;<;RQKMK<RP	<;<;RQNMKR;P	<;<;RK<MNQLP
<;<;RK=MNN;P	<;<;RK;MKOLP	<;<;RKLMN<=P	<;<;RKRMK=OP
<;<;RKSMMNOP	<;<;RKQMNL	<;<;RKKMNLPP	<;<;RKNMKS=P
<;<;RN<MNOSP	<;<;RN=MKONP	<;<;RN;M=<;KP	<;<;RNRMKKRP
<;<;RNSMQKQP	<;<;RNOMNRQP	<;<;RNKMNLSP	<;<;RNNM=<<RP
<;<;S<<MKKOP			

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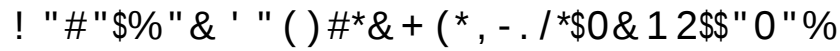
[illegible]

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NN

@/3A<)&B*('<=8+1&+! "#\$%#& '+/-*C;0&+B&D&)/A&B+E?+() *+, -. /01/2/3)45/6+0' /-50;'+
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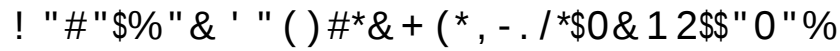
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 /+681,H'4%"1&+(871# '@8I'A(. . \$8716&7(8'48378""+783

!<<LQ;	"	#	\$	%	'	(
!<<LK=	"	#	\$		'	(
!<<LKS	"	#	\$	%	'	(
!<<LKO	#	\$	%	&	'	(
"<<LNS	#	'	(			
!<<LNQ	"	'	(			
!<<LNK	"	(				
!<<R<=	"	#	'	(		
!<<R<R	#	\$	%	&	'	(
!<<R==	"	#	\$	%	'	(
!<<R=;	"	#	\$	%	&	'
!<<R=N	"	#	'	(		
\$<<R;<	'					
!<<RLL	"	#	\$	&	'	(
!<<RRL	"	\$	'	(		
!<<RRN	"	#	\$	%	'	(
!<<RS<	"	\$	%	&	'	(
%109:33;						

[illegible]

%&'()*+,-./:0*1+2&3&'*0+4+5&6+7&80&&+9:;3<=;*</=++>;?+\$!"

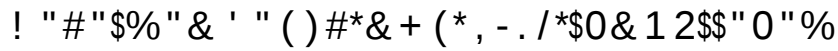
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7# ' #8FG;0&&H'1;+41;D;=F>;1; *3;+I;=B1<+J=<D&0'<?+K/**;?;3!



|424!@C'FE-0F0>04'B*-AF4EA4!@E2'04A?EBCBDV'9BBX@EE>!@ED@9@|

J@J4!'J@--

7#'#8FG;0&&H'1;+41;D;=F+>;1;*'3;+I;=B1+J=<D&0'<?+K/**;?;3|

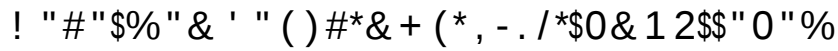


124!@C'FE-0F0>04'B*-AF4EA4'@E2'04A?EBCBDV'9BBX@EE>!'@ED@9@
 /+681,H'4%"1&+(871# '@8I'A(. . \$8716&7(8'48378""+783

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[illegible]

@/3A<|&B*(' <=8+1&+! "#\$%#& ' + / - * C ; 0&+B&D&)/A&B+E?+() *+, - ./01/2/3)45/6+0' / - 50, *+
7# ' # 8F&G;0&&H' 1;+41;D;=F+> ;1; * 3 ;+I ;=B1<+J=<D00'<?+K/**;?; 3l



@'ABCC4D4'B*''4E DFE44!FED'@E2''04A?EBCBDV'9>C@UBB!'9BBU@00>J
 /+681,H4%''1&+(871# '@8I'A(. . \$8716&7(8'48378''' +783

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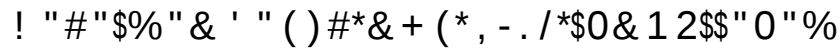
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7)6+.)33/.0)*0#\$\$- 5:6-+:)6;

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@/3A<)&B+('=>+1&+! "#\$%#& ' +! /- :C;0&+B&D&)/A&B+E?++() +*, -. /01/2/3)45/6+0' /- 50: +*

7#'#8FG;0&&H'1;+41;D;=f+>;1;^3;+I;=B1<+J=<D&0'<?*+K/**;?;3L



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& (

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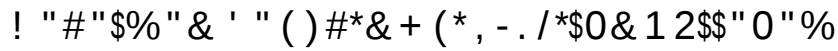
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%&'()*+,-./:0*1+2&3&'*0+4+5&6+7&80&&+9:;3<=;*</=++>;?+\$!"

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@/3A<)&B+('=>+1&+! "#\$%#& ' +! /- :C:0&+B&D&)/A&B+E?++()*, -. /01/2/3)45/6+0' /- 50,*+

7#'#8FG;0&&H'1;+41;D;=F+>;1;*'3;;+I;=B1+J=<D&0'<?+K/**;?;3|



[@'ABCC4D4'B*''4E DFE44!FED'@E 2''04A?EBCBDV'9>C@UBB!'9BBU@00>J]

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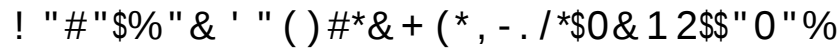
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CONCLUSIONS

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463	464	465	466	467	468	4

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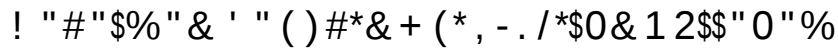
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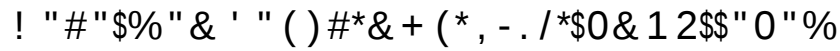
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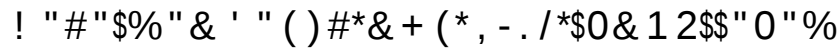
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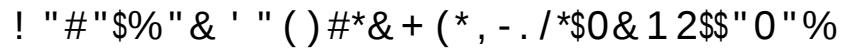
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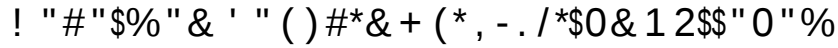
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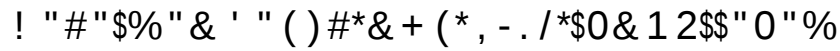
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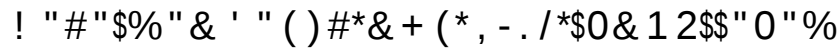
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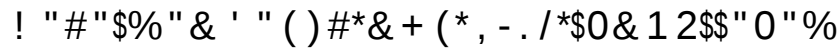
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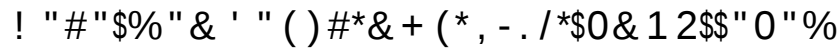
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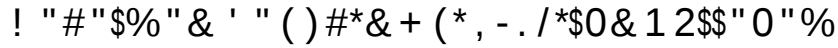
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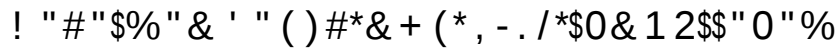
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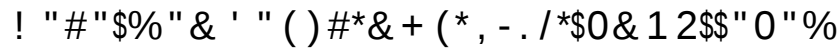
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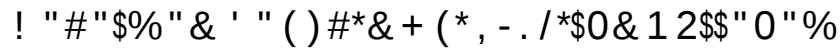
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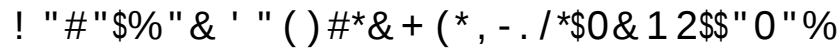
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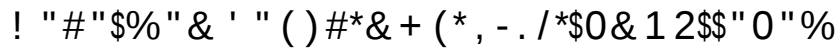
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$;<=;;\text{S}<\text{MKSKP}$	$;<=;;\text{SLMKRLP}$	$;<=;;\text{SRMQK}<\text{P}$	$;<=;;\text{SSMQLNP}$
$;<=;;\text{SOMKKSP}$	$;<=;;\text{SKMKO}=\text{P}$	$;<=;;\text{O}=\text{MKSKP}$	$;<=;;\text{O};\text{MQSKP}$

[illegible]

PS

@/ 3A<)&B+(' <=8+*1&+! "#\$%#& ' +! /- *C;0&&B&D&)/A&B+E?++() +*, -./01/2/3)45/6+0' /- 50; +*
7# ' #8fG;0&&H'1;+41;D;=f+>;1; *3;+I;=B1<+J=<D&0'<*?+K/**;?;3l



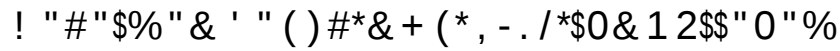
9 @ 0 ? @ ' A B C C 4 D 4 ' B * ' 0 4 A ? E B C B D V ' 9 @ E @ X @ J @ 2 V ' E B ! 0 ? ' J @ ! > !
/ + 6 8 1 , H ' 4 % " 1 & + (8 7 1 # ' @ 8 I ' A (. . \$ 8 7 1 6 & 7 (8 ' 4 8 3 7 8 " " + 7 8 3

```

; <==K;
!      $      %      &      (
; <==K0
!      "      $      %      &      (
; <==KQ
!      "      $      %      &      '      (
; <==KN
!      $      &
; <==NL
%      (
; <==NS
$      '      (
; <==NK
!      "      $      %      &      (
; <==NN
!      "      #      $      &      '      (
; <=; <<
!      "      $      '      (
; <=; <L
$      &
; <=; <R
!      "      #      $      &      (
; <=; <S
!      "      #      $      &      '      (
; <=; <Q
!      &      (
; <=; <N
!      "      #      $      &      '      (
; <=; =<
!      "      #      $      %      &      (
; <=; ==
!      #      $      &      '      (
; <=; =S
"      #      $      &      '      (
%109.33;

```

!"#\$%&'()*+,-./0123456789:;<=,*/>?@!""	Q!
@/3A< B+('=<8*1&+!"#\$%&'&'+'-/*C;0&+B&D&)/A&B+E?+()'+,-./012/3)45/6+0'/-50;'+	
7#'#8F&0&&H'1;+41;D;=F+>;1;*3;+I;=B1<J=<D&0'<?+K/**;?;3!	



9@0?@'ABCC4D4'B*!04A?EBCBDV'9@E@X@J@2V'EB!0?'J@!>!

J@J4!'J@--

! " \$ % & ' (

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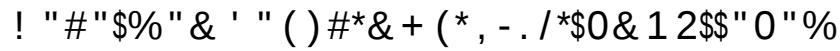
\$

! # \$ % (

[illegible]

0''

7#'#8fG;0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D&0'<^?+K/**;?;3L



9@0?@'ABCC4D4'B*!04A?EBCBDV'9@E@X@J@2V'EB!0?'J@!>!

J@J4!'J@--

! " \$ % & ' (

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%

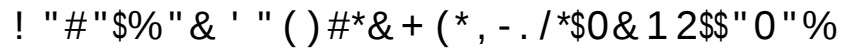
\$

%

[illegible]

Q\$

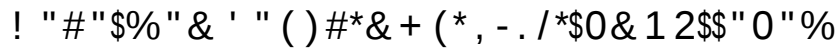
7#'#8fG;0&&H'1;+41;D;=F>;1;^3;+I;=B1<+J=<D&0'<^?+K/**;?;3L



```
| 9 @ 0 ? @ ' A B C C 4 D 4 ' B * ' 0 4 A ? E B C B D V ' 9 @ E @ X @ J @ 2 V ' E B ! 0 ? ' J @ ! > ! |
```

#

7#'#8FG;0&&H'1;+41;D;=f+>;1;^3;+I;=B1<+J=<D&0'<?+K/**;?;3L



9 B> E0'YFB E'ABCC4D4'B*'4E DFE44!FE D'X@2@ 9 9 @EF00@

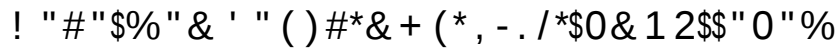
-494-04!'J@--

; <<LRSMKKSP	; <<LRNMKSLP	; <<LSRMQQLP	; <<LSQMK=KP
; <<LSKMK=QP	; <<LSNMONSP	; <<LOLMNQQP	; <<LORMKSSP
; <<LOQMKLKP	; <<LQLMKQKP	; <<LQRMKQ<P	; <<LQNMQQR
; <<LK;MQONP	; <<LKSMQQSP	; <<LN;MK;KP	; <<LNOMK=OP
; <<LNQMQLLP	; <<R<=MQO;P	; <<R<OMKLKP	; <<R==MK;LP
; <<R=QMNRKP	; <<R=NMKONP	; <<R;<MQR;P	; <<R;SMKOKP
; <<R;KMNRKP	; <<RLLMQK;P	; <<RLSMKNKP	; <<RR<MQQ=P
; <<RR;MKR;P	; <<RRLMKRQP	; <<RROMQRNP	; <<RRQM<=P
; <<RSLMK=QP	; <<RSQMK<KP	; <<ROLMQNNP	; <<RQ=MQKQP
; <<RQ;MN=NP			

[illegible]

ON

@/3A<|&B*('=>+1&+! "#\$%#& ' + / - * C ; 0&+B&D&)/A&B+E?++() * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 , * +
7 # ' # 8 F G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D 0 ' < * ? + K / * * ; ? ; 3 l



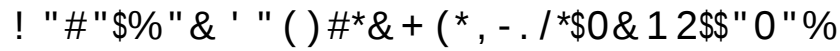
9 B>E0'YFB E'ABCC4D4'B*!4E DFE44!FE D'X@2@9 9@EF00@
/+681,H'4%"1&+(871# '@8I'A(. . \$8716&7(8'48378""+783

```

; <<LR=
!      #      $      &      '      (
; <<LR;
!      "      #      $      %      '      (
; <<LRR
(
; <<LRK
!      (
; <<LS;
!      "      $      %      &      '      (
; <<LSL
!      $      %      &      (
; <<LSS
!      "      #      $      %      &      (
; <<LS0
"      $
; <<L0=
"      $      %      (
; <<L0;
(
; <<LOS
!      $      %      &      '      (
; <<L00
!      "      #      $      %      &      '
; <<L0K
!      "      $      %      &      '      (
; <<LON
!      "      &
; <<LQ<
!      "      $      '
; <<LQ=
!      "      $      &      '      (
; <<LQ;
"      &
%109.33;

```

!"#\$%&'()*+,-./0123456789:;<=>?@AB	Q0
CDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abc	
defghijklmnopqrstuvwxyz0123456789	
:;<=>?@AB CDEFGHIJKLMNOPQRSTU	
VWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz	
0123456789:;<=>?@AB CDEFGHIJKL	



```
9 B>E0'YFB E'ABCC4D4'B*!4E DFE44!FE D'X@2@9 9@EF00@
```

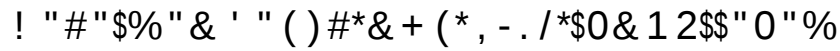
J@J4!'J@--

%109:33;

! "#\$!#\$!""

OP

@/3A<)&B+('<=8*1&+!"#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?++()*, -./01/2/3)45/6+0' /-50;*+ 7#'#8fG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<J=<D&0'<*?+K/'**;;?;3l
--



9 B>E0'YFB E'ABCC4D4'B*!4E DFE44!FE D'X@2@9 9@EF00@

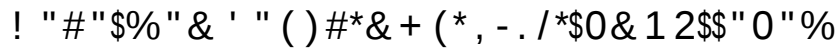
J@J4!'J@--

%109:33;

! "#\$%&'()*+,-./:;?@

00

@/3A<)&B+('<=8+*1&+!"#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?++()*+,.-/01/2/3)45/6+0' /-50;*+ 7# #' #8fG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3l
--



9 B>E0'YFB E'ABCC4D4'B*!4E DFE44!FE D'X@2@9 9@EF00@

J@J4 ! ' J@ - -

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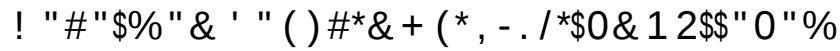
00000000000000000000000000000000 (<="

!"#"\$!#\$!"\$"

QR

7#'#8FG;0&&H'1;+41;D;=F+>;1;^3;+I;=B1<+J=<D&0'<^?+K/**;?;3L

7#'#8FG;0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D&0'<?*+K/**;?;3L

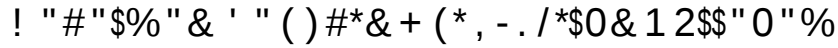


9 B>E0'YFBE'ABCC4D4'B*4E DFE44!FE D'X@2@9 9@EF00@
/+681,H'4%"1&+(871# '@8I'A(. . \$8716&7(8'48378""+783

[illegible][illegible]

QS

@/3A<)&B+('<=8*1&+!"#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?++()*, -./01/2/3)45/6+0' /-50;*+ 7#'#8fG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<J=<D&0'<*?+K/*;*;?;3l



9 > - @CF@ ! 'ABCC4D4' B *' 4E DFE44 ! F E D' @ E 2 ' 04A ? E B C B D V' X > 9 / @ Y ? @'

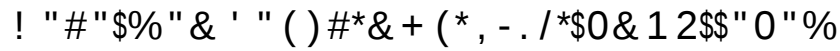
/+681, H'4%"1&+(871# '@8I'A(. . \$8716&7(8'48378""+783

<L=NKMQKOP	<L;<MK<KP	<L;<SMKLSP	<L;<NMQKSP
<L;=<MK=OP	<L;=RMQN=P	<L;=OMKL<P	<L;=QMKR<P
<L;=KMQSSP	<L;;=MKLQP	<L;;;MK=LP	<L;;;RMNKNP
<L;;;OMKLQP	<L;LSM=<<<P	<L;LQMKLPP	<L;LKMK;<P
<L;LNMQS=P	<L;R<MOQKP	<L;ROMKKNP	<L;RNMKNSP
<L;S<MNLLP	<L;SLMQ=OP	<L;SSMQ<RP	<L;SOMKLRP
<L;SKMK<OP	<L;O=MQQKP	<L;O;MK;KP	<L;OLMKKLP
<L;OOMK;<P	<L;OQMQNNP	<L;OKMNLQP	<L;Q=MKQQP
<L;QSMKO=P	<L;QQMK<=P	<L;QKMQ;QP	<L;K<MKNOP
<L;K;MKKLP	<L;KRMKSQP		

[illegible]

R!

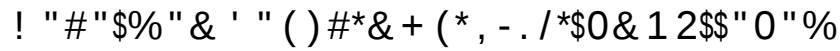
7#'#8fG;0&&H'1;+41;D;=f>;1;*3;+I;=B1<+J=<D&0'<^?+K/**;?;3L



```
|@!'ABCC4D4!B*!4EDFE44!FED!@E2!04A?EBCBDV'X>9/@Y?@!J@0?@E@9|
```

J@J4!'J@--

7#'#8fG;0&&H'1;+41;D;=f+>;1;*3;+I;=B1<+J=<D&0'<^?+K/**;?;3L



```
|@!'ABCC4D4!B*!4EDFE44!FED!@E2!04A?EBCBDV'X>9/@Y?@!J@0?@E@9|
```

J@J4!'J@--

! " # \$ % & (

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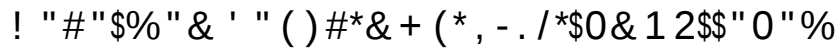
7)6+.)33/.0)*0#\$\$-5:6-+:)6;

%&'()*+,-./:0^1+2&3&'*&0+4+5&6+7&80&&9:;3<=;*</>=++>;?;\$!"#\$

R\$

@/ 3A<)&B+(' <=8+*1&+! "#\$%#& ' +'/-.*C;0&+B&D&)/A&B+E?++()*+, -. /01/2/3)45/6+0 ' /- 50;*+

7#'#8fG;0&&H'1;+41;D;=f+>;1;.*3;+I;=B1<+J=<D&0'<^?+K/**;?;3L



```
|@!'ABCC4D4'B*!4EDFE44!FED'@E2!04A?EBCBDV'X>9/@Y?@'J@0?@E@9|
```

J@J4!'J@--

! " # \$ % & ' (

" & "

! " % & '

! " # \$ %

!

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(

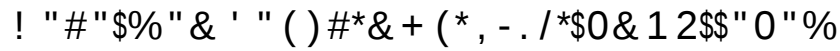
! " # \$ % & (

```
00000000000000000000000000000000 ( <="
```

! "#\$!#\$!""

RM

7#'#8FG;0&&H'1;+41;D;=f+>;1;^3;+I;=B1<+J=<D&0'<?*+K/**;?;3L



```
|@!'ABCC4D4'B*!4EDFE44!FED'@E2!04A?EBCBDV'X>9/@Y?@J@0?@E@9|
```

J@J4!'J@--

! " # \$ % & (

\$ % &

! " \$ % & ' (

! \$ (

! " # \$ % ' (

! " \$ % ' (

! " # \$ % &

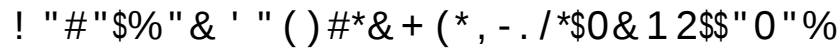
! " # \$ % &

! " # \$ % ' (

[illegible]

RN

7#'#8FG;0&&H'1;+41;D;=F+>;1;*'3;;+I;=B1+J=<D&0'<?+K/**;?;3|



-A9 -'-A?BBC'B*!4EDDw!Z!04A?EBCBDV!X@!>X>00V

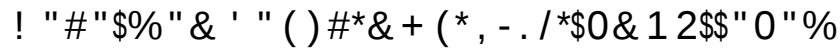
-494-04!'J@--

<LLN=MK<RP	<LLNRMQKQP	<LLNQMKN;P	<LLNKMQS<P
<LLNNMN=;P	<LR<<MNL<P	<LR<=MK;;P	<LR<;MQNOP
<LR<LMK=OP	<LR<SMN<;P	<LR<QMQLNP	<LR<KM=<=<P
<LR=<MKOKP	<LR==MQN;P	<LR=;MNQOP	<LR=LMN<LP
<LR=SMQO<P	<LR=KMQQ;P	<LR=NMQ;<P	<LR;<MKQRP
<LR;;=MK<=P	<LR;;MKR<P	<LR;LMN<;P	<LR;RMKO=P
<LR;SMNS;P	<LR;OMKQ;P	<LR;QMQOKP	<LRL<MN<OP
<LRL;MKQSP	<LRLLMNSRP	<LRLSMN<<P	<LRLQMNOLP
<LRLKMKKLP	<LRR=M=<<;P	<LRR;MNSQP	<LRRLMN;=P
<LRRRMNRSR	<LRRSMNSNP	<LRROMN=OP	<LRRKMKSQP
<LRRNMK<QP	<LRS=MKK;P	<LRS;MK;KP	<LRSSMKNRP

[illegible]

R0

@/3A<|&B*(' <=8+1&+! "#\$%#& ' + / - * C ; 0&+B&D&)/A&B+E?+())*, - ./01/2/3)45/6+0' / - 50;'+
7# ' # 8F&G0&&H'1;+41;D;=F> ;1; * 3 ;+I ;=B1<+J=<D0'1'<?+K/++;? ; 3l



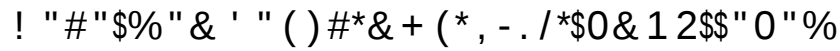
```

-@FE0DF0-'ABCC4D4'B*!4EDFE44!FED'J@0?@9>00B9'X09
/ +681, H'4%"1&+(871# '@8I'A( . . $8716&7(8'48378"" +783

```

%

7#'#8FG;0&&H'1;+41;D;=f+>;1;^3;+I;=B1<+J=<D&0'<?+K/**;?;3L



β-4J?-'ABCC4D4'B*4EDFE44!FED'@E2'04A?EBCBDV'A?BBE2@A?4!!V'J

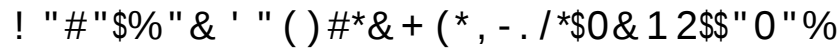
J@J4!'J@--

```
%109:33;
```

! "#\$%&'()*+,-./:;?@

SR

@/3A<)&B*(' <=8+1&+! "#\$%#& ' + / - * C ; 0&+B&D&)/A&B+E?+() *+, - ./01/2/3)45/6+0' / - 5 0; *+
7# ' # 8FG:0&&H'1: +41;D;=F> ;1: *3 ;+I;=B1<+J=<D00' <?+K/**;?;3|



β-4J?-'ABCC4D4'B*!4EDFE44!FED!@E2!04A?EBCBDV!A?BBE2@A?4!!V!J

J@J4 ! ' J@ - -

! " \$ % & ' (

! " \$ & ' (

! & ' (

!

! " # \$ % ' (

! " \$ & ' (

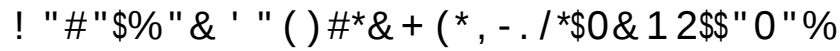
! " # \$ % & ' (

\$ %

[illegible]

SS

7#'#8FG;0&&H'1;+41;D;=F+>;1,*3;+I;=B1+J=<D&0'<?+K/**;?;3L

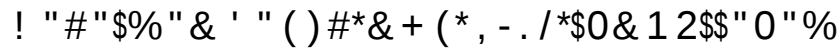


UF- G @TVB0F'ABCC4D4'B *'4E D D\Z04A? EBCBDV'U@Y?@X>C@ 9
/+681, H'4%"1&+(871# '@8I'A(. . \$8716&7(8'48378'" "+783

! ;<RSON	"	#	\$	%	&	'
! ;<RSQ<	"	\$	%	&	'	(
! ;<RSN<	"	#	\$	%	&	
! ;<RSNR	"	#	\$	&		
! ;<RSNQ	"	#	\$	%	&	'
! ;<RSNK	"	#	\$	&	'	
! ;<RSNN	"	#	\$	'		
! ;<R0<R	"	#	\$	%	'	(
! ;<R0<K	"	#	\$	%	&	(
! ;<R0=0	"	#	%	&	'	(
! ;<R0;=	"	\$	%	&	'	(
! ;<R0;;	&					
! ;<R0;R	#	%	&			
! ;<R0;K	"	#	\$	%	&	(
\$;<ROL<	%	&				
! ;<ROL=	"	#	\$	%	'	(
! ;<ROLL	"	#	\$	%	&	(
%109:33;						

[illegible]

@/3A<)&B+('=<8+*1&+!"#\$%#&'&+!/-*C;0&+B&D&)/A&B+E?++())*+, -./01/2/3)45/6+0'/-50;*+7#'#8F&0&&H'1;+41;D;=F+>;1;*3;+I;=B1+J=<D&0'<?*+K/**;?;3L



UF- G @TVB0F'ABCC4D4'B *'4E D D W Z 04A? E B C B D V'U@Y?@X>C@ 9
/+681, H'4%"1&+(871# '@8I'A(. . \$8716&7(8'48378""+783

```

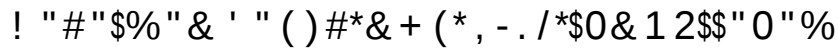
;ROR0
!      "      $      &
;ROS0
!      "      $      &      (
;ROOL
!      "      $      (
;ROOR
"      $
;ROON
!      "      #      $      &      (

```

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%109:33;
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[illegible]

@/3A<)&B+('=<+*1&+! "#\$%#& ' + ' - * C ; 0&+B&D&)/A&B+E?++() + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 ; * + 7 # ' ' # 8 F G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D & 0 ' < * ? + K / ** ; ? ; 3 l
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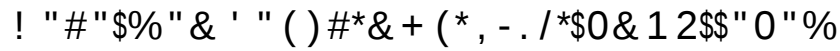
UF- G @TVB0F'ABCC4D4'B *'4E D D W Z 04A? E B C B D V'U@Y?@X>C@ 9

J@J4!'J@--

\$

[illegible]

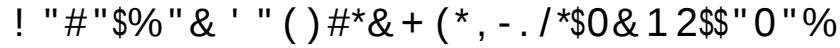
@/3A<B†('≤8+1&+! "\$%#& ' + ' - * C;0&B&D&)/A&B+E?+() *+, -.01/2/3)45/6+0' / - 50; * †



|.@!@V@E@'9@ED@C@9'FE-0F0>04'B*'-AF4EA4!@E2'04A?EBCBDV'EB!0?'!
 /+681,H'4%"1&+(871# '@8I'A(. . \$8716&7(8'48378'" "+783

! ;<;<;S	\$	%	&	'	(	
! ;<L<;;	#	\$	&	'	(	
! ;<L<LL	\$	&	'	(		
! ;<L<L0	\$	&	'	(		
! ;<L<LQ	\$	&	'	(		
! ;<L<R;	#	\$	&	'	(	
\$;<L<RL	'					
\$;<L<RR	'					
! ;<L<S;	\$	&	'	(		
! ;<L<SR	\$	&	'	(		
! ;<L<SS	\$	&	'	(		
# ;<L<S0	\$					
! ;<L<SQ	\$	%	&	'	(	
! ;<L<SN	#	\$	&	'	(	
! ;<L<0=	#	\$	&	'	(	
! ;<L<0R	#	\$	%	&	'	(
! ;<L<00	\$	%	&	'	(	
%109.33;						

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l

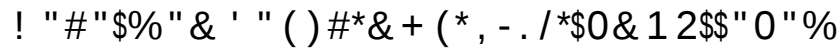


```
>EFU4!-F0V'ABCC4D4'B*4EDFE44!FED['0?B2>J>Y?@
/+681,H'4%"1&+(871# '@8I'A( . . $8716&7(8'48378""+783
```

[illegible]

"!S

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



```
>EFU4!-F0V'ABCC4D4'B*4EDFE44!FED['0?B2>J>Y?@
/+681,H'4%"1&+(871# '@8I'A( . . $8716&7(8'48378""+783
```

;<<;L<

; << ; LL

; << ; LS

; << ; L0

0;S0Q

\$

$$0;SQ=$$

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0;SQL

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0;SQS

11

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0;SKL

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0;SKN

! \$

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11

0; SN=

0;SN;

\$

0;SNL

#

%109:33;

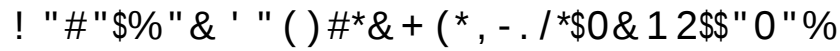
[illegible]

! "#\$%&'()*+,-./:;?@

%&'()*+,-./012&3&'*0+45&61+7&80&&9:;3<=;*</=++>;?*\$!""

|| || ||

@/3A<)&B+(' <=8+*1&+! "#\$%#& ' + /-.*C;0&&B&D&)/A&B+E?+() *+, -. /01/2/3)45/6+0' /-50; *+
7# ' # 8FG;0&&H'1;+41;D;=F+> ;1; *3 ;+I ;=B1<+J=<D&0'<?+K/**;?; 3!



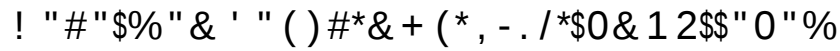
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>EFU4!-F0V'ABCC4D4'B*4EDFE44!FED['0?B2>J>Y?@
```

J@J4!'J@--

%

[illegible]

@/3A< &B(' '<=+*1&+! "#\$%#& ' +'/-.*C;0&+B&D&)/A&B+E?+())*, -. /01/2/3)45/6+0' /-50,*+ 7# ' #8Fg;0&&H'1;+41;D;=F+> ,1; *3 ;+I ;=B1<+J=<D&0'<?+K/**;?; 3l



- !44! /> 2 2 ? @ ! A B C C 4 D 4 ! B * ! 4 E D F E 4 4 ! F E D ! * B ! ' G B 9 4 E

J@J4!'J@--

@ / A 4 * D ?

@ / 2 * D ?

@ / 4 * D ?

@ / 2 4 * D ?

@ / 2 4 * D ?

/ 4 * D ?

@ / 4 * D ?

@ * D ?

@ / 2 4 * D ?

@ / 4 * D ?

@ / 4 * D ?

/ 2 4 * D ?

@ / A * D ?

@ / 4 * D ?

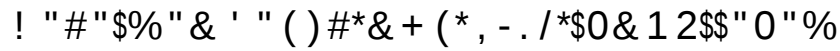
@ / 4 * D ?

@ / A 4 * D ?

[illegible]

\$

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ; 0&+B&D&)/A&B+E?++ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 ' , * + 7 # ' # 8 f G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D & 0 ' < * ? + K / * * ; ? ; 3 l



- !44!/>22?@!ABCC4D4!B*!4E DFE44!FE D!*B!*G B 94E

J@J4!'J@--

@ / 2 4 * D ?

@ / 2 4 * D ?

@ / 4 * D ?

@ / * D ?

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@ / 4 * D ?

* D

@ / 4 * D ?

@ / A 4 * D ?

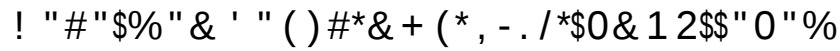
*

@	/	2	4	*	D	?
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[illegible]

M

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ;0&+B&D&)/A&B+E?++ () * + , - . /01/2/3)45/6+0 ' /- 50 ; * + 7 # ' # 8fG ;0&&H ' 1 ;+41 ;D ;=F+ > ;1 ; * 3 ;+I ;=B1<+J =<D&0 ' < * ?+K / * * ; ? ; 3l



!@TFU'D@E2?F'FE-0F0>04'B* '04A?EBCBDV'U4CCBB!

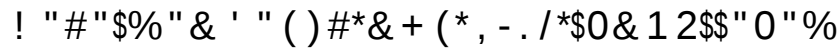
-494-04!'J@--

<K<=<MRRQP	<K<<;MRR;P	<K<<SMRO;P	<K<<OMROQP
<K<<NMNRN=P	<K<<RMRNNP	<K<=<MNQRP	<K<=<SMRKKP
<K<=<OM=<;SP	<K<=<LMNSSP	<K<=<RMR<RP	<K<;<MQKQP
<K<;<;MRSNP	<K<;<KM=<SNP	<K<;<NMQQRP	<K<;<RMQ<OP
<K<;<QMQQ=P	<K<S<MRKRP	<K<S=<MRROP	<K<S;<MRLLP
<K<SSMNO=P	<K<SOMQR=P	<K<SLMRO<P	<K<SNMRR=P
<K<SQMR;LP	<K<O=M=<<RP	<K<OSMQSOP	<K<OKMQSQP
<K<ONMNQLP	<K<ORMNQ;P	<K<L<MR;SP	<K<L;<MQOKP
<K<LSMR;=P	<K<LOMNQKP	<K<LLMR=OP	<K<LNMRNNP
<K<LRMRRKP	<K<LQMR=SP	<K<K<MRRNP	<K<KSMNQ<P
<K<KLMR<SP	<K<KNMQ=SP	<K<KRMQSKP	<K<KQMQ;OP
<K<N<MRNKP	<K<N=<MRNOP		

[illegible]

0

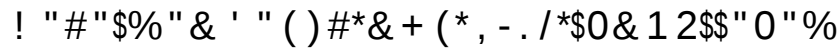
@/3A<)&B+('=<8*1&+! "#\$%#& ' + / - ^ C ; 0&&B&D&)/A&B+E?++() ^ + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 , ^ + 7 # ' # 8 F G ; 0&&H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; ^ 3 ; + I ; = B 1 < + J = D & 0 ' < ^ ? + K / ^ * ; ? ; 3 l
--



!@TFU'D@E2?F'FE-0F0>04'B*'04A?EBCBDV'U4CCBB!

J@J4!'J@--

@/3A<&B*('<=8+1&+! "#\$%#&' +/-.*C;0&+B&D&)/A&B+E?+()*+, -. /01/2/3)45/6+0' /- 50,'*+
7# ' #8FG:0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3!



!@TFU'D@E2?F'FE-0F0>04'B*'04A?EBCBDV'U4CCBB!

J@J4 ! ' J@ - -

@ / A 4 * D ?

@ / 2 4 * D ?

@ / 2 * D ?

@ / 2 4 * D ?

@ / * D ?

@ / 2 4 * D ?

@ / 2 4 * D ?

/ 2 4 * D ?

@ / A 4 * D ?

/

A

A 4

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*

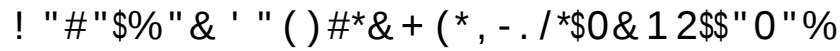
*

*

[illegible]

Q

@/3A< &B+(' <=8+*1&+! "#\$%#& ' +'/-.*C;0&+B&D&)/A&B+E?++() *+, -. /01/2/3)45/6+0' /-50' ;* 7# ' #8fG;0&&H'1;+41;D;=F+> ;1;.*3 ;+I ;=B1<+J=<D&0'<?*+K/**;?;3l



9@!@0?@E@-F>- '4E DFE44!FE D'ABCC4D4'WB0?@9@ED@C@9

J@J4!'J@--

 $\gamma < R; \gamma < 0$

@ / A 4 * D ?

; <R; <L

@ / A 2 4 D ?

$$\underline{; < R; < R}$$

/ 2 4 * ?

$;\leq R; \leq Q$

@ / 2 4 * D ?

$$\underline{; \prec R ; = \prec}$$

@ / 4 * D ?

$$\underline{; \leq R ; = S}$$

@ / A 4 * D ?

$$\underline{; < R; = 0}$$

@ / 2 4 * D ?

$$\underline{; < R ; = K}$$

@ / 4 * D ?

$$\underline{; < R ; ; <}$$

@ / A 2 4 D ?

$$\frac{; \leq R; ; S}{; \leq R; ; S}$$

@ A 2 4 * D ?

; $\leq R$;;K

@ / 2 4 * D ?

$$\underbrace{; \leq_R ;}_{\text{;}} \underbrace{; \leq_N ;}_{\text{;}} \underbrace{; \leq_{\text{N}} ;}_{\text{;}}$$

@ / 2 4 * D

$$\underline{; \leq R; S;}$$

@ / 2 4 * D ?

; <R; SS

@ / 2 4 * D ?

; <R; SL

@ / A 2 4 * ?

$;\leq R;SQ$

@ D ?

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%109:33;
```

[illegible]

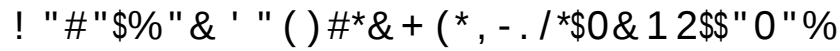
! "#\$%&'()*+,-./:;?@

%&'()*+,-./:012&3456789:;=<,*</=>?@\$!""

"!"

@/3A<)&B+('≤8+*1&+!"#\$%#&'+'/-*C:0&+B&D&)/A&B+E?++()*+,-./01/2/3)45/6+0'/-50:*+

7#'#8FG;0&&H'1;+41;D;=F>;1;^3;+I;=B1<+J=<D&0'<^?+K/**;?;3L



9@!'@0?@E@-F>- '4E DFE44!FE D'ABCC4D4'WB0?@9@ED@C@9

J@J4!'J@--

@ / A 2 4 * ?

@ / 2 4 * D ?

@ / A 4 * D ?

@ / A 2 4 ?

@ / A 4 D ?

@ / A 2 4 D ?

@ / 2 4 * D ?

2 4 D

@ / 2 4 * D

@ / 2 4 * D ?

@ / 4 D ?

@ / 4 D ?

@ / A 2 4 D ?

@ / 4 * D ?

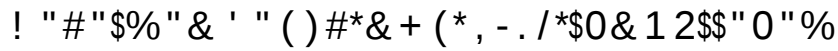
@ / A 2 * D ?

@ / 4 * D ?

[illegible]

|| ||

@/3A<)&B+('<=8*1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?++()*, -./01/2/3)45/6+0' /-50;*+ 7#'#8fG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<J=<D&0'<*?+K/**;?;3l



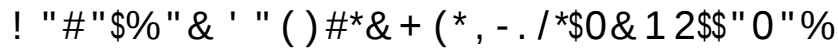
```
9@!'@0?@E@-F>-'4E DFE44!FE D'ABCC4D4'WB0?@9@ED@C@9
```

J@J4!'J@--

@

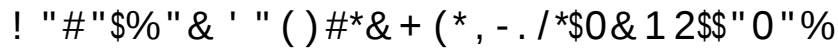
[illegible]

7#'#8fG;0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D&0'<^?+K/**;?;3L



T@F'/?@!@0?'ABCC4D4'B* '9@E@D494E0'@E2'04A?EBCBDV

7#'#8fG;0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D&0'<^?+K/**;?;3L

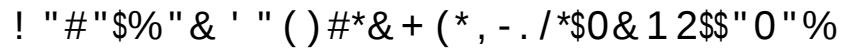


T@F'/?@!@0?'ABCC4D4'B*!9@E@D494E0!@E2!04A?EBCBDV
--

J@J4!'J@--

[illegible]

@/3A<)&B+(' <=8+*1&+! "#\$%#& ' +'/-.*C;0&+B&D&)/A&B+E?+() *+, -. /01/2/3)45/6+0' /-50; *+
7# ' # 8FG;0&&H'1;+41;D;=F+> ;1; *3 ;+I ;=B1<+J=<D&0'<?+K/**;?; 3!



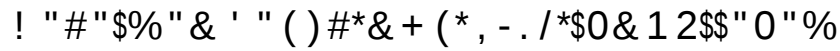
9 @ ! ' / @ - 4 C F B - ' F E - 0 F 0 > 0 4 ' B * ' 0 4 A ? E B C B D V ' @ E 2 ' - A F 4 E A 4

-494-04!'J@--

```
; <ROSKMRNLP      ; <R00;MQ0=P      ; <ROLQMR<LP
```

[illegible]

@/3A<|&B*('=>+1&+! "#\$%#& ' + / - * C ; 0&+B&D&)/A&B+E?+() *+, - ./01/2/3)45/6+0' / - 50, *+
7# ' # 8F G ; 0&&H' 1 ; +41 ; D ; =F+> ; 1 ; * 3 ; +I ; =B1<+J=<D00'<?+K/** ; ? ; 3|



9 @ ! ' / @ - 4 C F B - ' F E - 0 F 0 > 0 4 ' B * ' 0 4 A ? E B C B D V ' @ E 2 ' - A F 4 E A 4

J@J4!'J@--

@ A * D ?

@ / A * D ?

/ ?

D ?

@ / A 4 * D ?

@ / A 4 * D ?

@ A 4 * D ?

@ / 4 D ?

/ * D ?

@ / 2 4 * D ?

@ / 2 4 * D ?

@ / 2 4 * D ?

@ D ?

@ 4 ?

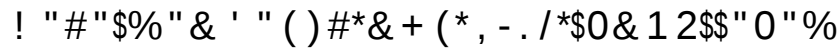
@ / 4 * ?

@ * D ?

[illegible]

"S

@/3A<|&B+(' <=8+*1&+! "#\$%#& ' +'/-.*C;0&+B&D&)/A&B+E?++() *+, -. /01/2/3)45/6+0' /-50;'+
7# ' #8fG;0&&H'1;+41;D;=F+> ;1; *3 ;+I ;=B1<+J=<D&0'<?+K/**;?;3!



9 @ ! ' / @ - 4 C F B - ' F E - 0 F 0 > 0 4 ' B * ' 0 4 A ? E B C B D V ' @ E 2 ' - A F 4 E A 4

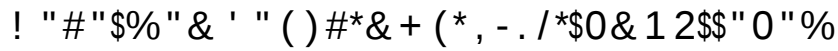
J@J4!'J@--

@ / * D ?

[illegible]

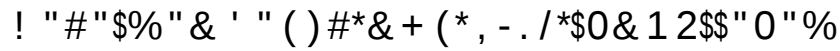
\$!

@/3A< &B+(' <=8+*1&+! "#\$%#& ' +'/- *C;0&+B&D&)/A&B+E?++() *+, -. /01/2/3)45/6+0' /- 50;,* 7# ' # 8fG;0&&H'1;+41;D;=F+> ;1; * 3 ;+I ;=B1<+J=<D&0' <*?+K/**;?; 3l



```
FC@?F@'ABCC4D4'B*''4EDFE44!FED'@E2''04A?EBCBDV'9>C@UBB!'
9BBU@00>J>X?@
```

@/3A<)&B+(' <=8+*1&+! "#\$%#& ' +'/-.*C;0&&B&D&)/A&B+E?+() *+, -. /01/2/3)45/6+0' /-50; *+
7# ' # 8FG;0&&H'1;+41;D;=F+> ;1; *3 ;+I ;=B1<+J=<D&0'<?+K/**;?; 3!



```
FC@?F@'ABCC4D4'B*'4EDFE44!FED'@E2''04A?EBCBDV'9>C@UBB!'
9BBU@00>J>X?@
```

J@J4!'J@--

@ / A 4 * D ?

@ / 4 D ?

@ / * D ?

@ / A 4 * D ?

@ / * D ?

/ D ?

@ / 2 4 * D ?

@ / 4 * D ?

/ * D

/

@ / 4 * D ?

*

@ / A 4 * D ?

@ / 4 * D ?

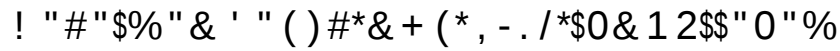
@ / 2 4 * D

@ / 4 * D ?

[illegible]

MP

@/3A<)&B+('<=8+*1&+!"#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?++()*+,.-/01/2/3)45/6+0'/-50;*+7#'#8fG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3l
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```
FC@?F@'ABCC4D4'B*'4EDFE44!FED'@E2''04A?EBCBDV'9>C@UBB!'
9BBU@00>J>X?@
```

J@J4!'J@--

@ / A 4 * D ?

@ / 4 * D ?

@ / 4 * D ?

/ 4 * D ?

@ A 4 * D ?

@ / A 4 * D ?

@ / A 4 * D ?

@ / A 4 * D ?

@ / A 4 * D ?

@ / A * D ?

@ / A 4 * D ?

@ / 2 4 * D ?

/ 4 * D

@ / A 4 * D ?

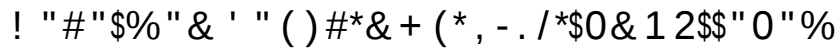
/ * D ?

@ / 2 * D ?

[illegible]

MQ

@/3A<)&B+('=<8*1&+!"#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?++()*, -./01/2/3)45/6+0' /-50;*+ 7#'#8fG;0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<*?+K/*;*;?;3L



W 9 4 @ ' 4 E D F E 4 4 ! F E D Y ' A B C C 4 D 4 ' 4 2 @ 0 ? @ C @ ' @ C > U @

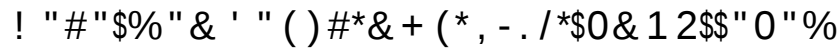
J@J4!'J@--

@ / A 2 4 * D

[illegible]

N!

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ;0&+B&D&)/A&B+E?++ () * + , - . /01/2/3)45/6+0 ' /- 50 ; * + 7 # ' # 8fG ;0&&H ' 1 ; +41 ; D ; =F+ > ; 1 ; * 3 ; + I ; =B1<+J =<D&0 ' < * ? +K / * * ; ? ; 3l



W 9 4 @ ' 4 E D F E 4 4 ! F E D Y ' A B C C 4 D 4 ' 4 2 @ 0 ? @ C @ ' @ C > U @

J@J4!'J@--

; <NRK0

; <NRKL

; <NRKK

; <NRKN

; <NRKQ

; <NRN<

;<NRN;

; <NRNS

; <NRNO

; <NRNL

; <NRNK

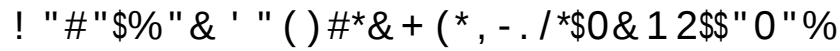
; <NRNN

; <NRNR

;<NRR<

; <NRR=[illegible]

@/3A< &B(' '<=+*1&+! "#\$%#& ' + ' / - * C ; 0&+B&D&)/A&B+E?+ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 ; * + 7 # ' # 8 F G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > , 1 ; * 3 ; + I ; = B 1 < J = < D & 0 ' < * ? + K / * * ; ? ; 3 l
--



W 9 4 @ ' 4 E D F E 4 4 ! F E D Y ' A B C C 4 D 4 ' 4 2 @ 0 ? @ C @ ' @ C > U @

J@J4 ! ' J@ - -

@ / A 4 * D ?

@ / A 2 4 * D

@ / A 4 * D ?

@ / A 4 * D ?

@ / A 4 D ?

* ?

@ / 2 4 * D ?

@ / 4 D ?

@ / A 4 * D ?

@ / 2 4 * D ?

@ / 4

@ / 4 * ?

A 4 * ?

@ / 4 * D ?

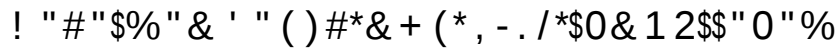
@ / 4 * D ?

/ 4 D ?

[illegible]

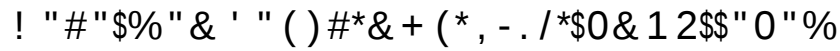
N\$

7#'#8fG;0&&H'1;+41;D;=f>;1;'3;+I;=B1<+J=<D&0'<'?+K/**;?;3L



```
9 > -@CF@!'ABCC4D4'B*!4EDFE44!FED'@E2'04A?EBCBDV'W>9/@X?@'
J@0?@E@90?F00@
```

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?++()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3l



```
9 > -@CF@!'ABCC4D4'B*!4EDFE44!FED'@E2'04A?EBCBDV'W>9/@X?@'
J@0?@E@90?F00@
```

J@J4!'J@--

@ / 4 * D ?

@ / 2 4 * D ?

@ / 2 4 * D ?

@ / 2 4 * D ?

* D ?

@ * D ?

@ / 2 4 * D ?

@ / 2 4 * D ?

@ / 2 4 * D ?

@ / 4 * D ?

/ * D ?

?

@ / 2 * D ?

/ 4 * D ?

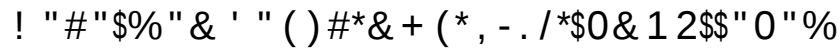
* ?

/ 4 * D ?

[illegible]

NP

7#'#8FG;0&&H'1;+41;D;=F>;1;^3;+I;=B1<+J=<D&0'<^?+K/**;?;3L



```
9 > -@CF@!'ABCC4D4'B*!4EDFE44!FED'@E2'04A?EBCBDV'W>9/@X?@'
J@0?@E@90?F00@
```

J@J4 ! ' J@ - -

@ / 2 * D ?

@ / 2 4 * D ?

@ / A * D ?

@ / * D ?

@ / 4 * D ?

@ / A 4 * D ?

/ 4 * D ?

@ / 2 * D ?

/ * ?

@ / 4 * ?

@ / * D ?

@ * D ?

@ / A 4 * D ?

* D ?

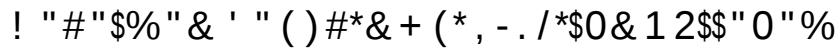
@ / A 4 * D ?

2 * D ?

[illegible]

NQ

@/3A<)&B+('=<8+*1&+!"#\$%#&'+'/-*C;0&&B&D&)/A&B+E?++()*, -./01/2/3)45/6+0'/-50;*+7# #'8fG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D&0'<+?+K/**;?;3L



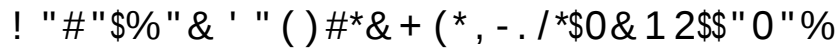
- A 9 - ' - A ? B B C ' B * ' 4 E D D ' Z ' 0 4 A ? E B C B D V ' W @ ! > W > 0 0 V

-494-04!'J@--

<NSS;MR<OP	<NSSSMRS<P	<NSSLMQ<KP	<NSSKMRLNP
<NSSNMNRN;P	<NSSQMRR<P	<NSO<MRS;P	<NSO;MNKRP
<NSOSMRKLP	<NSOOMR<RP	<NSOLMR<KP	<NSONMNSQP
<NSORMRQ=P	<NSL;MRLKP	<NSLSMQS<P	<NSLOMRKQP
<NSLKMN;RP	<NSLNMNNKP	<NSLRMQNRP	<NSK<M=<O=P
<NSK=MQSRP	<NSK;MR==P	<NSKOMQ=OP	<NSKLMNQSP
<NSKNMN;QP	<NSKRMR;QP	<NSKQMQLP	<NSN=MQKNP
<NSN;MRKSP	<NSNNMRKOP	<NSNRMNQ<P	<NSNQMRR;P
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<NSRLMQLQP	<NSRKMRQKP	<NSRNMNR;QP	<NSRRMQKSP
<NSQ=MNRKP			

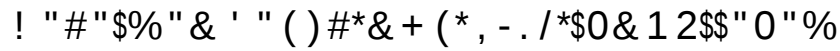
[illegible]

@/3A<)&B+('≤8*1&+!"\$%#&'+'/-*C;0&+B&D&)/A&B+E?++()*)+, -./01/2/3)45/6+0' /-50;'+ 7# #'8FG;00&H'1;+41;D;=F+>;1,*3;+I;=B1<+J=D00'<?+K/**;?;3l



-0'TB-4J?-''ABCC4D4'B*!4EDFE44!FED'@E2'04A?EBCBDV' A?BBE2@A?4!!V'J@C@
--

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



!@UFV'D@E2?F'FE-0F0>04'B*'04A?EBCBDW'V4CCBB!

K@K4 ! 'K@ - -

/	A	2	4	*	D	?
---	---	---	---	---	---	---

/	A	2	4	*	?
---	---	---	---	---	---

@ / A 2 4 * ?

2 D

@ A 2 * D

@ / A 2 4 * ?

@ A 2 4 D ?

/ A 2 D ?

@ / A *

D ?

/ A

4

A 2

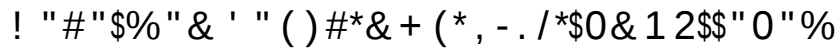
2

@ A

$$/ \quad 2$$
[illegible]

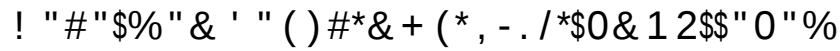
0

@/3A<&B+('<=8*1&+! "#\$%#& '+!/-*C;0&+B&D&)/A&B+E?++()'+, -. /01/2/3)45/6+0' /- 50,'+ 7# '#8fG;0&&H'1;+41;D;=F+> ;1; *3 ;+I ;=B1<+J=D&0'<?+K/**;?;3l
--



DBV0X'ABCC4D4'B*'4E DFE44!FE D'K@FE@V>

@/3A<|B+('=>1&+!"\$%#&'+'/-*C;0&B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50,'*
7#'#8FG:0&&H'1:41:D:≡†>:1*3:†I:≡B1<†J≡D00'<?†K/**?:3|



DBV0X'ABCC4D4'B* '4E DFE44!FED'K@FE@V>

K@K4 ! 'K@ - -

@ / A 2 4 D ?

@ A 2 * D ?

@ A 2 * D ?

@ A 4 D ?

@ / A 2 4 D ?

2 * D ?

@ A 2 4 D ?

@ 2 D ?

@ / A 2 4 D ?

@ / A 4 D ?

@ / A 2 4 D ?

2 4

@

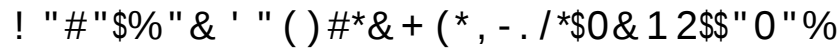
$$/ \quad A \quad 2$$

4

[illegible]

S

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--



9 @ ! ' @ 0 ? @ E @ - F > - ' 4 E D F E 4 4 ! F E D ' A B C C 4 D 4 ' Y B 0 ? @ 9 @ E D @ C @ 9

K@K4 ! 'K@ - -

@ / A 4 D ?

@ / A 2 4 * D

A ?

@ / A 2 4 * D

@ / A 2 4 * D

@ / A 2 4 * D

/ 4 * D ?

@ 4 D

@ / A 4 D ?

/ A 4 D ?

@ / A 4 * D ?

@ / A 4 * D ?

@ / A 4 * D ?

@ / A 4 * D ?

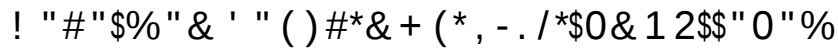
@ / 2 4 * D

@ / 4 *

[illegible]

¹⁵N

@/3A<&B+('<=8*1&+! "#\$%#& '+!/-*C;0&+B&D&)/A&B+E?++()'+, -. /01/2/3)45/6+0' /- 50,'+ 7# '#8fG;0&&H'1;+41;D;=F+> ;1; *3 ;+I ;=B1<+J=D&0'<?+K/**;?;3l
--



```
9@!'@0?@E@-F>- '4E DFE44!FED'ABCC4D4'YB0?@9@ED@C@9
```

K@K4 ! 'K@ - -

@ / 4 * D

$$/ \quad 2 \quad * \quad D$$

/ *

@ A 2 4 * D ?

@ / A 2 4 *

@ A 2 4 * ?

/	A	2	4	*	D	?
---	---	---	---	---	---	---

@ 2 4 * D

@ / 4 D ?

@ / A 2 4 D ?

/ A 2 4 * D ?

/ A 2 4 * D ?

@ / A 2 4 * D

4

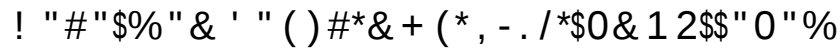
/

A 4

[illegible]

"0

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ; 0&+B&D&)/A&B+E?++ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 , * + 7 # ' # 8 f G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D & 0 ' < * ? + K / * * ; ? ; 3 l



| @2F'-?@EY@!@FE-0F0>04'B*!4EDFE44!FED'@E2'04A?EBCBDW'Y@C@2W|

K@K4!'K@--

@ A 4 * D ?

/ 2 * ?

@ A 2 4 * D ?

@ A 2 4 * D ?

/	A	2	4	D	?
---	---	---	---	---	---

@ A 2 * D ?

/ A 2 4 * D

@ / A 2 * D

/ A 2 4 * D

*

@ / A 2 4 * ?

@ / A 2 4 D ?

@ / A 4 * D ?

/ A 4 * D ?

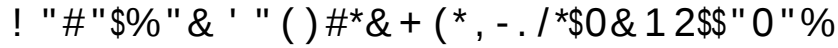
@ / A 2 * D ?

2

[illegible]

\$Q

@/3A<)&B+('=<+8*1&+! "#\$%#& ' + ' /-.*C;0&+B&D&)/A&B+E?+(())*+, -. /01/2/3)45/6+0' /-50,*+ 7# ' #8fG;0&&H'1;+41;D;=f+>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3l



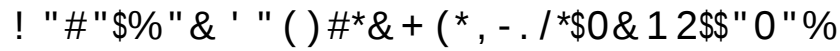
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-494-04!'K@--

;=<Q=OMRN;P	;=<Q=QMNSTP	;=<Q=NMNQ<P	;=<Q=RMNQ=P
;=<Q;;MNS=P	;=<Q;NMNRQP	;=<Q;RMLNLP	;=<Q0<MR0;P
;=<Q0=MT=OP	;=<Q0;MRNTP	;=<Q00MRQQP	;=<Q0LMR==P
;=<QONMMNRTP	;=<QORMRRRP	;=<QQ;MNNRP	;=<QQSMR=SP
;=<QQLMNSRP	;=<QQNMT=RP	;=<QQTMR=QP	;=<QS;MR0<P
;=<QSSMN<QP	;=<QSLMNQNP	;=<QSRMR<TP	;=<QSTMR;LP
;=<QL<MRR=P	;=<QL=MR;SP	;=<QLQMNT<P	;=<QLSMRS<P
;=<QLNMRRLP	;=<QLRMNSQP	;=<QLTMRS<P	;=<QN=MN<QP
;=<QN;MRTOP	;=<QNQMRQ<P	;=<QNSMNT<P	;=<QNLMR=NP
;=<QNNMR;RP	;=<QNRMRTP	;=<QNTMRONP	;=<QR;MTSLP
;=<QROMNQ=P	;=<QRLMTONP	;=<QRNMR;QP	;=<QTOMNLRP
;=<QTQMRNLP	;=<QTSMNSTP	;=<QTRMRTL	;=<QTTMNRT
;=<S<=MRS=P			

[illegible]

@/3A<|B*('<=8*1&+! "#\$%#& ' + ' - * C ; 0&+B&D&)/A&B+E?++() *+, -. / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 ; * +
7 # ' # 8 F G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D 0 0 ' < * ? + K / * * ; ? ; 3 L



@ 9 @C'UWB0?F'4E DFE44!FE D''ABCC4D4'Y B BV@KK@CCW'Y@EUF!@K@CCW

K@K4 ! 'K@ - -

@ / A 2 4 D ?

@ / A 2 4 * ?

@ / A 2 4 * D

@ A 2 4 D ?

@ / 2 4 D ?

@ / A 2 4 D

@ / A 2 4 D ?

/ A D

@ / A 2 4 D ?

@ / A 2 4 D ?

@ / A 4 * D

@ / A 2 4 D ?

/	A	2	4	D	?
---	---	---	---	---	---

@ / A 4 D ?

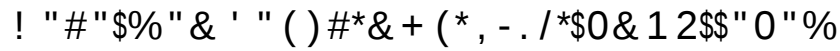
@ / A 2 4 D ?

/	A	2	4	*	D	?
---	---	---	---	---	---	---

[illegible]

M!

@/3A<)&B+('<=8*1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?++()*, -./01/2/3)45/6+0' /-50;*+ 7#'#8fG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<J=<D&0'<*?+K/**;?;3l



@ 9 @C'UWB0?F'4E DFE44!FE D''ABCC4D4'Y B BV@KK@CCW'Y@EUf!@K@CCW

K@K4 ! 'K@ - -

/ A D ?

D

$$/ \quad A \quad 2 \quad * \quad D \quad ?$$

@ / A 2 4 D ?

/ A 2 D ?

@ / A 2 4 * ?

/ A 4 * D ?

@ / A 2 4 D ?

@ / A 2 4 D ?

/ A 4 D ?

@

2

@ 2

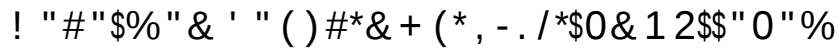
@

A

@ 2

[illegible] M''

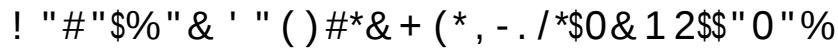
@/3A<)&B+('<=8+*1&+!"#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?++()*,.-./01/2/3)45/6+0'/-50;*+7#'#8fG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3l
--



@ 9 @C'UWB0?F'4E DFE44!FE D''ABCC4D4'YBBV@KK@CCW'Y@EUF!@K@CCW

@

7#'#8FG;0&&H'1;+41;D;=f+>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3L



A@@! 9 4C'4E DFE44!FE D'ABCC4D4'K4!FE@2>'!@EEF

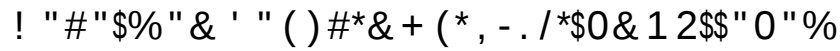
-494-04!'K@--

;==S; ;MRRRP	;==S; QMRQQP	;==S; NMNS=P	;==S; TMR0<P
;==S0; MRTTP	;==S00MR=SP	;==SQQMTN; P	;==S0SMNSSP
;==SQ=MNSOP	;==SQLMNN<P	;==SQTMTQNP	;==SS<MT0TP
;==SS=MT=QP	;==SSLMRQQP	;==SSNMNSSP	;==SL<MNSNP
;==SL=MN=TP	;==SLOMTLRP		

[illegible]

MM

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



424!@C'FE-0F0>04'B'-AF4EA4'@E2'04A?EBCBDW'9BBY@EE>!'

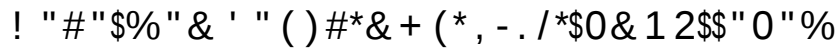
/+681, H¹A(. I\$&"+'-17"81"¹68J¹48378""+783

;==<R;MRSSP	;==<RQMN;=P	;==<RNMT=TP	;==<RRMTN;P
;==<T<MNSOP	;==<T=MRORP	;==<TOMNLTp	;==<TNMTT<P
;==<TRMNSTP	;==<TTMN;SP	;===<<MN=SP	;===<=MRSNP
;===<;MNO<P	;===<OMRNSP	;===<QMR0=P	;===<NMRN=P
;===<RMT<TP	;===<TMNQLP	;=====<MR RTP	;=====MT=TP
;=====QMRQQP	;=====SMRQQP	;=====LMR;=P	;=====NMRRLP
;=====RMN<OP	;=====TMR=OP	;===;=MR<OP	;===; ;MN=OP
;===;SMT0<P	;===;NMNSLP	;===;RMRR;P	;===;TMNNRP
;===0;MLR;P	;===00MLS LP	;===0QMR<TP	;===0SMTQ<P
;===OLMRQQP	;===Q<MR<TP	;===Q;MNS<P	;===QOMRQ;P
;===S<MR<=P	;===SOMT<TP	;===SQMN;QP	;===SLMR;QP
;===SNMRSRP	;===L<MRQ;P	;===L;MLTLP	;===LLMT;=P
;===LNMR<LP	;===LRMT;QP	;===LTMR;<P	;===N=MR;SP
;===N;MRQSP	;===NOMN=TP	;===NSMRR=P	;===NNMRTNP
;===R<MR<P	;===R=MLT<P	;===R;MRQLP	;===RSMTN;P
;===RLMR=RP	;===RNMR;LP	;===RRMROSP	;===T<MT;NP
;===T;MNORP	;===TQMRQQP	;===TNMLRQP	;===TRMR=<P
;===TTMR=NP	;==;<=MR<SP	;==;<QMR=OP	;==;<SMR<RP
;==;<LMR=;P			

[illegible]

MP

7#'#8FG;0&&H'1;+41;D;=f+>;1;^3;+I;=B1<+J=<D&0'<?*+K/**;?;3L



Y 9 4 @ ' 4 E D F E 4 4 ! F E D X ' A B C C 4 D 4 ' 4 2 @ 0 ? @ C @ ' @ C > V @

K@K4 ! 'K@ - -

/ A 2 D

$$/ \quad A \quad 2 \quad * \quad D$$

@ / A 2 * D ?

/ A 2 4 * D ?

@ / A 2 4 * D

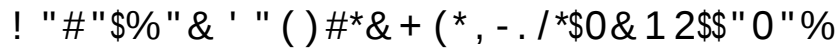
@ / A 2 4 D ?

2

[illegible]

NQ

7#'#8FG;0&&H'1;+41;D;=f+>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3L



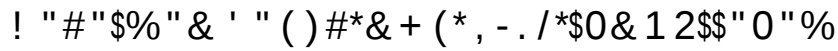
9@ED@C@9'ABCC4D4'B*!4EDFE44!FED'400>9@EBB!

-494-04!'K@--

;;LL=MLN=P	;;LLLMT<=P	;;LLTMR RTP	;;LN<MN;LP
;;LN;MN<QP	;;LNSMNQ;P	;;LNR MRT<P	;;LR<MR=OP
;;LRQMR=SP	;;LRLMRSTP	;;LRTMRNRP	;;LTOMNQSP
;;LTQM RQ<P	;;LTNMNSRP	;;LTTMRORP	;;N<<MLT=P
;;N<=MNNLP	;;N<QMRLLP	;;N<LMRORP	;;N==MNT<P
;;N=;MR=<P	;;N=OMTQSP	;;N=QMRSOP	;;N=LMLTSP
;;N=RMNT;P	;;N=TMNN=P	;;N; <MR<;P	;;N; QMR<TP
;;N;SMLN<P	;;N;LMN=LP	;;N;RMT<;P	;;N;TMR=<P
;;NO;MRSTP	;;NOOMNN<P		

[illegible]

@/ 3A<)&B+(' <=8+*1&+! "#\$%#& ' +! /- *C;0&&B&D&)/A&B+E?++() +, -./01/2/3)45/6+0' /- 50; +
7# ' #8fG;0&&H'1;+41;D;=f+>;1; *3;+I;=B1<+J=<D&0'<?+K/**;?;3l

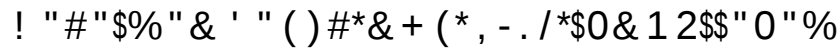


```
9@ED@C@9'ABCC4D4'B*4EDFE44!FED'400>9@EBB!
```

K@K4 ! 'K@ - -

[illegible]

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?++()*,,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



```
9@ED@C@9'ABCC4D4'B*!4EDFE44!FED'400>9@EBB!
```

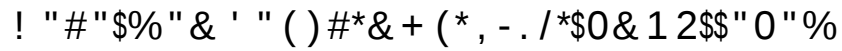
K@K4 ! 'K@ - -

A

[illegible]

0!

7#'#8fG;0&&H'1;+41;D;=F>;1;^3;+I;=B1<+J=<D&0'<^?+K/**;?;3L



```
9@ED@C@9'ABCC4D4'B*!4EDFE44!FED'400>9@EBB!
```

K@K4 ! 'K@ - -

/	A	2	4	*	D	?
---	---	---	---	---	---	---

/	A	2	4	*	D	?
---	---	---	---	---	---	---

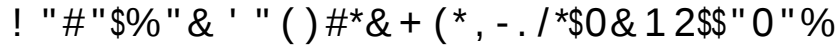
/ A D ?

@ / A 4 * D

[illegible]

0''

7#'#8FG;0&&H'1;+41;D;=F>;1;^3;+I;=B1<+J=<D&0'<^?+K/**;?;3L



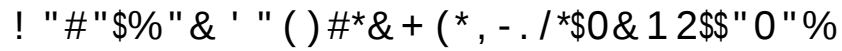
```
9@!'/@-4CF>-'A?!F-0F@E'ABCC4D4'B*4EDFE44!FED'@E2'04A?EBCBDW'
K44!9@24
```

- 4 9 4 - 0 4 ! ' K @ - -

%109:33;

! " # \$ % & ' () * + , - . / : ; < = > ? @ [\] ^ _ ` { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾ ¿ À Á Â Ã Ä Å Æ Ç È É Ê Ë Ì Í Î Ï Ñ Ò Ó Ô Õ Ö × Ø Ù Ú Û Ü Ý Þ ß à á â ã ä å æ ç è é ê ë ì í î ï ð ñ ò ó ô õ ö ÷ ø ù ú û ü ý þ ÿ 0\$

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



```
| 9 @ ! ' / @ - 4 C F > - ' A ? ! F - 0 F @ E ' A B C C 4 D 4 ' B * ' 4 E D F E 4 4 ! F E D ' @ E 2 ' 0 4 A ? E B C B D W ' |
|                                     K 4 4 ! 9 @ 2 4                                     |
|_____
```

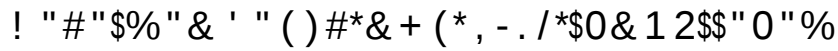
7+681, H¹A(. I\$&"+"-17"81"68J'48378""+783

@ 2 4 * D ?

[illegible]

ON

@/3A<)&B+('=<+8*1&+! " # \$ % # & ' + ' / - * C ; 0&&B&D&)/A&B+E?+(() * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 ; * + 7 # ' # 8 f G ; 0 & & H ' 1 ; + 4 1 ; D ; = f + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D & 0 ' < ? + K / ** ; ? ; 3 l



9 @0? @'ABCC4D4' B *'04A? E BCB DW' 9 @E@Y@K@ 2W' E B !0?'K@ ! > !

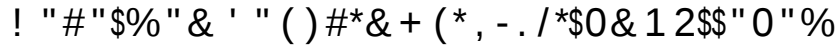
-494-04!'K@--

$;=<<R;MR=P$	$;=<<RLMNRLP$	$;=<<RRMNQRP$	$;=<<T=MNNLP$
$;=<<TLMNQSP$	$;=<<TNMNT=P$	$;=<=<OMRSSP$	$;=<=<QMR=SP$
$;=<=<LMT=NP$	$;=<===MRLRP$	$;=<===MNSSP$	$;=<===QMR;LP$
$;=<===SMR<NP$	$;=<===LMNTOP$	$;=<===TMRROP$	$;=<=;LMNSSP$
$;=<=;NMR=NP$	$;=<=;RMNSTP$	$;=<=OSMT0=P$	$;=<=OLMT<NP$
$;=<=ONMRSTP$	$;=<=Q;MR;OP$	$;=<=QOMNOQP$	$;=<=QSMT<=P$

[illegible]

00

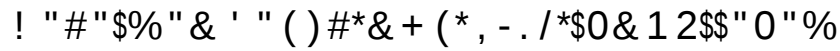
@/3A<)&B*('=>+1&+! "#\$%#&' +/ -.*C;0&+B&D&)/A&B+E?+() *+, -. /01/2/3)45/6+0' /-50,'*
7# ' #8FG;0&&H'1;+41;D;=F>;1; *3;+I;=B1<+J=<D&0'<?+K/**;?;3!



9 @0?@!ABCC4D4'B*!04A?EBCBDW'9@E@Y@K@2W'EB!0?'K@!>!

K@K4 ! 'K@ - -

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()*,,-./01/2/3)45/6+0'/-50',*+7#'#8F<0&&H'1;+41;D;=+>;1;*3;+I;=B1<J=C=D0&0'<?+K/**;;?;3l



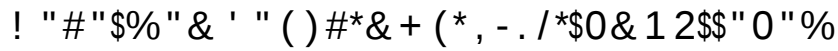
9@@?@'ABCC4D4'B*!04A?EBCBDW'9@E@Y@K@2W'EB!0?'K@!>!

K@K4 ! 'K@ - -

@

[illegible]

7#'#8FG;0&&H'1;+41;D;=F+>;1;^3;+I;=B1+J=<D&0'<?+K/**;?;3L



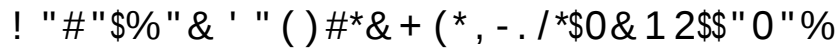
9 B>E0'ZFB E'ABCC4D4'B*!4E DFE44!FE D'Y@2@9 9@EF00@

-494-04!'K@--

<T00;MR<<P	<T00QMRLP	<T00SMROLP	<T00NMR<TP
<TOQSMNNSP	<TOS;MTORP	<TOSOMNLP	<TOSSMNLTP
<TOSRMRRTP	<TOL<MNS=P	<TOL=MR=OP	<TOL;MRSRP
<TOLOMRQ;P	<TOLQMNSNP	<TOLSMTSLP	<TOR;MNOQP
<TORTMT=RP	<TOT=MT=LP	<TOT;MNNLP	<TOTQMR;NP
<TOTSMNTOP	<TQ<=MR=OP	<TQ<QMRSNP	<TQ<LMRRNP
<TQ=QMNRNP	<TQ=NMNOQP	<TQ;TMR=NP	<TQOOMR=;P
<TQOSMNN<P	<TQORMR<<P	<TQQQMRT=TP	

[illegible]

@/3A<)&B+('≤8*1&+!"\$%#&'+'/-*C;0&+B&D&)/A&B+E?++()*)+, -./01/2/3)45/6+0' /-50;'+ 7# #'8FG;00&H'1;+41;D;=F+>;1,*3;+I;=B1<+J=D00'<?+K/**;?;3l



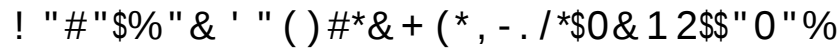
```
9 B>E0'ZFB E'ABCC4D4'B*!4E DFE44!FE D'Y@2@9 9@EF00@
```

K@K4 ! 'K@ - -

[illegible]

OS

@/3A<&B+('<=8*1&+! "#\$%#& '+!/-*C;0&+B&D&)/A&B+E?++()'+, -. /01/2/3)45/6+0' /- 50,'* 7# '#8fG;0&&H'1;+41;D;=F+> ;1; *3 ;+I ;=B1<+J=D&0'<?+K/**;?;3l
--



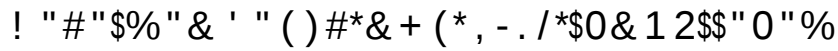
9 B>E0'ZFB E'ABCC4D4'B*!4E DFE44!FED'Y@2@9 9@EF00@

K@K4 ! 'K@ - -

/ A ?

[illegible]

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



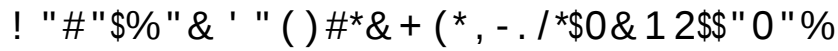
9 B>E0'ZFB E'ABCC4D4'B*!4E DFE44!FE D'Y@2@9 9@EF00@

K@K4 ! 'K@ - -

D ?

[illegible]

7#'#8FG;0&&H'1;+41;D;=F+>;1;^3;+I;=B1<+J=<D&0'<?+K/**;?;3L



9 B>E0'ZFB E'ABCC4D4'B*!4E DFE44!FE D'Y@2@9 9@EF00@

*

D

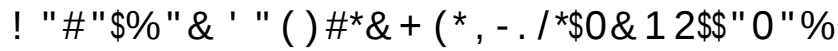
D

?

[illegible]

P\$

@/3A< &B+(' <=8+*1&+! "#\$%#& ' +'/-.*C;0&+B&D&)/A&B+E?++() *+, -. /01/2/3)45/6+0' /- 50' ;* 7# ' # 8fG;0&&H' 1;+41;D;=F+> ;1;.* 3 ;+I ;=B1<+J=<D&0' <?*+K/**;?; 3l



9 > - @CF@ ! 'ABCC4D4' B * '4E DFE44 ! FE D' @ E 2 '04A ? EBCB DW' Y > 9 / @Z ? @'

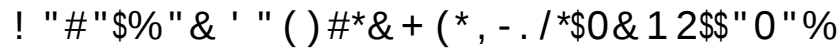
/+681, H¹A(. I\$&"+'-17"81"¹68J¹48378""+783

$;;=RO;MNSLP$	$;;=ROQMNTTP$	$;;=ROSMRS=P$	$;;=ROLMT0OP$
$;;=RONMRO=P$	$;;=RORM=<=LP$	$;;=ROTMLQP$	$;;=RQ<MRR=P$
$;;=RQ;MRS;P$	$;;=RQQMR==P$	$;;=RQNMNRSP$	$;;=RQTMR<SP$
$;;=RS;MNTRP$	$;;=RSOMLNOP$	$;;=RSSMN;<P$	$;;=RSLMNQLP$
$;;=RSNMRLQP$	$;;=RSTMN;NP$	$;;=RL=MNORP$	$;;=RL;MRQLP$
$;;=RLQMRRNP$	$;;=RLLMR;<P$	$;;=RLRMR=RP$	$;;=RNOMR<;P$
$;;=RNQMTN=P$	$;;=RNLMR<;P$	$;;=RNTMNOSP$	$;;=RR<MRROP$
$;;=RRQMR=RP$	$;;=RRSMR;OP$		

[illegible]

PN

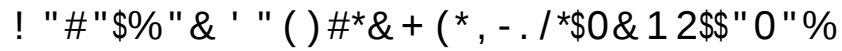
7#'#8FG;0&&H'1;+41;D;=f+>;1;^3;+I;=B1<+J=<D&0'<?+K/**;?;3L



```
9>-@CF@!'ABCC4D4'B*!4EDFE44!FED'@E2'04A?EBCBDW'Y>9/@Z?@'
K@0?@E@90?F00@
```

K@K4!'K@--

@/3A<)&B+(' <=8+*1&+! "#\$%#& ' + / - * C ; 0&+B&D&)/A&B+E?+() *+, - ./01/2/3)45/6+0' / - 50; *+
7# ' # 8FG;0&&H'1;+41;D;=F+> ;1; *3 ;+I ;=B1<+J=<D&0'<?+K/**;?; 3!



```
9 > -@CF@! 'ABCC4D4'B *'4EDFE44!FED'@E2'04A?EBCBDW'Y>9 /@Z?@'
K@0?@E@90?F00@
```

7+681, H¹A(. I\$&"⁺-17"81"¹68J¹48378"¹+783

@ A 4 D ?

2 4 * D ?

@ A 4 D ?

* D

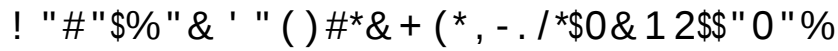
@ A 2 4 * D ?

@	A	2	4	*	D	?
---	---	---	---	---	---	---

[illegible]

PP

@/3A<)&B+('<=8+*1&+!"#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?++()*+,.-/01/2/3)45/6+0' /-50;*+ 7# #' #8fG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3l
--



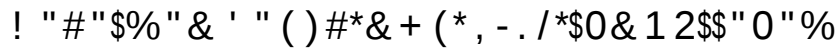
- A 9 - ' - A ? B B C ' B * ' 4 E D D X ' [' 0 4 A ? E B C B D W ' Y @ ! > Y > 0 0 W

-494-04!'K@--

$;==\text{TTQMNTOP}$	$;==\text{TTSMT=TP}$	$;==\text{TTLMRO=P}$	$;==\text{TTNMNN<P}$
$;==\text{TTRMR<NP}$	$;==\text{TTTMNRQP}$	$;=><<\text{OMR=NP}$	$;=><<\text{SMT=LP}$
$;=><<\text{LMRONP}$	$;=><<\text{NMRTTP}$	$;=><<\text{TMT=<P}$	$;=><=<\text{MRQ;P}$
$;=><=<\text{MRL=P}$	$;=><=<\text{OMN;NP}$	$;=><=<\text{QMRQRP}$	$;=><=<\text{SMNLRP}$
$;=><=<\text{NMTQTP}$	$;=><=<\text{TMR==P}$	$;=><=<=<\text{M=<=RP}$	$;=><=<=<\text{OMRRQP}$
$;=><=<=<\text{NMRNNP}$	$;=><=<=<\text{RMR;TP}$	$;=><=<=<\text{O<MR<LP}$	$;=><=<=<\text{O=MNOQP}$
$;=><=<=<\text{OOMN;=P}$	$;=><=<=<\text{ONMN=NP}$	$;=><=<=<\text{Q=MNLQP}$	$;=><=<=<\text{QOMN;SP}$
$;=><=<=<\text{QQMT=;P}$	$;=><=<=<\text{QSMRL=P}$	$;=><=<=<\text{QLMNRTP}$	$;=><=<=<\text{QTMNN=P}$
$;=><=<=<\text{S<MNNTP}$	$;=><=<=<\text{S=MTSRP}$	$;=><=<=<\text{SOMRQ<P}$	$;=><=<=<\text{SSMNTTP}$

[illegible]

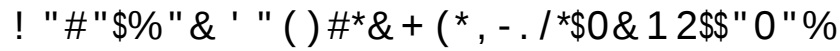
@/3A<|B*('<=8*1&+! "#\$%#& ' + ' - * C ; 0&+B&D&)/A&B+E?++() *+, -. / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 ; * +
7 # ' # 8 F G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D 0 & ' < * ? + K / * * ; ? ; 3 L



- A 9 - ' - A ? B B C ' B * ' 4 E D D X ' [' 0 4 A ? E B C B D W ' Y @ ! > Y > 0 0 W

K@K4 ! 'K@ - -

@/3A<&B*('<=8+1&+!'#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?+()*+, -./01/2/3)45/6+0' /-50,'*
7#'#8FG:0&&H'1;+41;D;=F>;1: *3;+I;=B1<+J=<D00'<?+K/**;?;3!



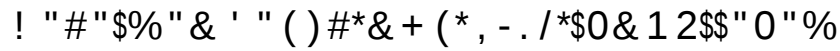
-@FE0DF0-'ABCC4D4'B*!4E DFE44!FED'K@0?@9>00B9'Y09

K@K4 ! 'K@ - -

/

[illegible]

@/3A< &B(' '<=8+*1&+! "#\$%#& ' +'/-.*C;0&+B&D&)/A&B+E?+(())*+, -. /01/2/3)45/6+0' /-50,*+ 7# ' #8Fg;0&&H'1;+41;D;=F+> ,1; *3 ;+I ;=B1<+J=<D&0'<?+K/**;?; 3l
--



-0'UB-4K?-1ABCC4D4'B*14EDFE44!FED'@E2'04A?EBCBDW'

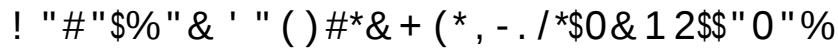
/+681, H'A(. I\$&"+'-17"81"'68J'48378""+783

$;<=<;S=MN;NP$	$;<=<;SQMNSQP$	$;<=<;SSMRNNP$	$;<=<;SLMN=<P$
$;<=<;SNMR;OP$	$;<=<;STMNTRP$	$;<=<;L<MN RTP$	$;<=<;L;MROSP$
$;<=<;LOMRQNP$	$;<=<;LQMNNLP$	$;<=<;LSMR;=P$	$;<=<;LNMNSNP$
$;<=<;LRMNNQP$	$;<=<;LTMNO=P$	$;<=<;N<MNRSP$	$;<=<;NNMNTRP$
$;<=<;NRMNQ;P$	$;<=<;R=MTN=P$	$;<=<;RLMR;OP$	$;<=<;RNMN=OP$
$;<=<;RTMR<<P$	$;<=<;T<MNOSP$	$;<=<;T=MN;OP$	$;<=<;T;MNORP$
$;<=<;TOMR<SP$	$;<=<;TQMR<=P$	$;<=<;TSMRTNP$	$;<=<;TNMNS=P$
$;<=<;TTMRTTP$	$;<=<O<<MN;<P$	$;<=<O<=MNL;P$	

[illegible]

00

7#'#8FG;0&&H'1;+41;D;=f+>;1;^3;+I;=B1<+J=<D&0'<?*+K/**;?;3L



```
-0'UB-4K?-''ABCC4D4'B*'4EDFE44!FED'@E2'04A?EBCBDW'
A?BBE2@A?4!!W'K@C@
```

K@K4 ! 'K@ - -

/	A	2	4	*	D	?
---	---	---	---	---	---	---

4

@ / A 2 * D ?

$$/ \quad A \quad * \quad D$$

@ A 4

/ D

@ / A 2 4 * D

@ / A 4 * D

/ A ?

@ / A 4 D ?

@ / A 2 4 * D

@ / D ?

/ D ?

@ / A 2 4 * D

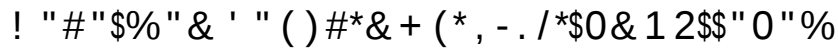
4 D

@ / 4 D ?

[illegible]

%&'()*+,-./:012&3456789:;=<?@A[\\]^_`{|}~

@/3A<|&B+(' <=8+*1&+! "#\$%#& ' + / - * C ; 0&+B&D&)/A&B+E?+() *+, - ./01/2/3)45/6+0' / - 50' ; +
7# ' # 8FG;0&&H' 1;+41;D;=F+> ;1; *3 ;+I ;=B1<+J=C&D0' <?+K/**;? ;3l



```
-0'UB-4K?- 'ABCC4D4'B* '4E DFE44!FE D'@E 2 '04A? EBCB DW'
A?BB E 2@A?4! !W'K@C@
```

K@K4 ! 'K@ - -

@ / A 2 4 * ?

@ / A * D

@ / A 2 * D ?

/ 2 * D ?

/ A 2 4 * D

/	A	2	4	*	D	?
---	---	---	---	---	---	---

2

/

2

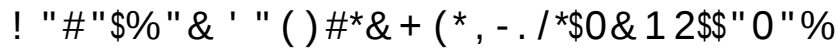
@

@

[illegible]

QS

7#'#8FG;0&&H'1;+41;D;=f+>;1;^3;+I;=B1<+J=<D&0'<?+K/**;?;3L



VF- G@UWB0F'ABCC4D4'B*4EDDX[04A?EBCBDW'V@Z?@Y>C@9

K@K4 ! 'K@ - -

/ 2 ?

@ / A 2 * D ?

@ / 2 4 * D ?

/	A	2	4	*	D	?
---	---	---	---	---	---	---

@ 2 4 * ?

@ A 2 4 * ?

A 4 * D ?

@ /

@ A 2 4 * ?

@ A 2 4 * D ?

@ / 2 4 * ?

@ / 2 4 * D ?

@ / A 2 4 *

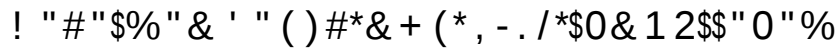
@ / A 2 4 D ?

/ A 4 D ?

@ / 4 D

[illegible] R''

7#'#8fG;0&&H'1;+41;D;=f+>;1;^3;+I;=B1<+J=<D&0'<^?+K/**;?;3L



VF- G@UWB0F'ABCC4D4'B*'4EDDX[04A?EBCBDW'V@Z?@Y>C@9

K@K4 ! 'K@ - -

@ / A 2 4 D ?

@ A 4 ?

4 ?

@ / A 4 * D ?

@ / A 4 * ?

@ / 2 4 D

@ A 4 * D ?

/	A	2	4	*	D	?
---	---	---	---	---	---	---

/ * D

/	A	2	4	*	D	?
---	---	---	---	---	---	---

@ / A *

@ / A 2 4 D ?

/ *

@ / A 2 4 * ?

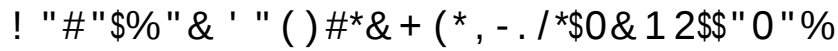
@ / A 4 D

/ A * ?

[illegible]

R\$

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ;0&+B&D&)/A&B+E?++ () * + , - . /01/2/3)45/6+0 ' /- 50 ; * + 7 # ' # 8fG ;0&&H ' 1 ; +41 ; D ; =F+ > ; 1 ; * 3 ; + I ; =B1<+J =<D&0 ' <?+K / ** ; ? ; 3l
--



VF- G@UWB0F'ABCC4D4'B*'4EDDX[04A?EBCBDW'V@Z?@Y>C@9

K@K4 ! 'K@ - -

@ / A 4 * D ?

/

@ / A 2 4 * ?

@ / A 2 4 * ?

/ A 4 ?

/ A 4 * ?

/ D

/

/

/

4

A

4

*

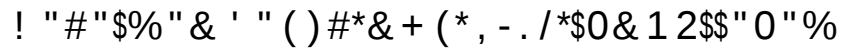
@

/

[illegible]

RM

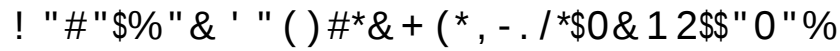
7#'#8fG;0&&H'1;+41;D;=F>;1;^3;+I;=B1<+J=<D&0'<^?+K/**;?;3L



VF- G@UWB0F'ABCC4D4'B*'4EDDX[04A?EBCBDW'V@Z?@Y>C@9

@ 2

@/3A<|&B*('=>+1&+! "#\$%#& ' + / - * C ; 0&+B&D&)/A&B+E?+ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 , * +
7 # ' # 8 F G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D 0 0 ' < ? + K / * * ; ? ; 3 l



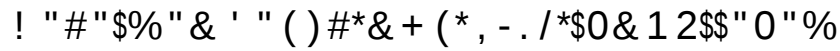
```
- !44'E@!@W@E@'9@ED@C@9'FE-0F0>04'B*'-AF4EA4'@E2'04A?EBCBDW'
EB!0?'K@!>!
```

- 4 9 4 - 0 4 ! ' K @ - -

; ==LNOMNS;P	; ==LNQMRNTP	; ==LNSMNQOP	; ==LNLMR<=P
; ==LNTMNQRP	; ==LR<MT<LP	; ==LR=MNTRP	; ==LRQMN;TP
; ==LRSMRQ;P	; ==LRNMRONP	; ==LRRMRQLP	; ==LRTMNSNP
; ==LT<MR<SP	; ==LT;MN=TP	; ==LTSMRQSP	; ==LTLMR<QP
; ==LTNMRTL P	; ==LTRMRN<P	; ==LTTMRSTP	; ==N<<MRT=P
; ==N<=MROQP	; ==N<;MRONP	; ==N<QMT=SP	; ==N<SMNLS P
; ==N<LMT<SP	; ==N<NMTQQP	; ==N<RMR;OP	; ==N<TMR==P
; ==N<=MNQNP	; ==N=;MR;;P	; ==N=QMNLS P	; ==N=SMR==P
; ==N=LMNRLP	; ==N=NMTQOP	; ==N=RMRQOP	; ==N=TMTSNP
; ==N;;M=<=QP	; ==N;OMNRLP	; ==N;QMRTTP	

[illegible]

@/3A<)&B*('<=8+1&+! "#\$%#& ' + /- * C ;0&+B&D&)/A&B+E?++ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 , * +
7 # ' # 8 F G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D 0 0 ' < ? + K / * * ; ? ; 3 l



```

-!44'E@!@W@E@'9@ED@C@9'FE-0F0>04'B*'-AF4EA4'@E2'04A?EBCBDW'
EB!0?'K@!>!

```

; == LN ==

;;=LN;

; == LNN

; == LNR

; $\equiv$ LR;

; ==LR0

; $\equiv$ LRL

:=LT=

; == LT0

; $\equiv$ LTQ

; == N < 0

; ==N==

;; == N = 0

$$\underline{; == N ; <}$$
$$\underline{; \equiv N ;}$$

; $\equiv$ N;S

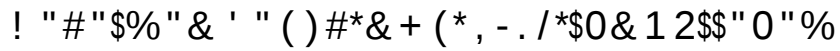
```
%109:33;
```

! "#\$%&'()*+,-./:;?@

%&'()*+,-./0123456789:;<=;>?@A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [\] ^ _ ` { | } ~

RP

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



```

-!44'E@!@W@E@'9@ED@C@9'FE-0F0>04'B*-AF4EA4'@E2'04A?EBCBDW'
EB!0?'K@!>!

```

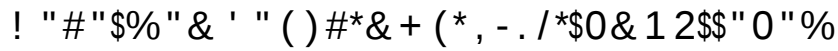
7+681, H' A(. I\$&" + ' -17" 81" 68J' 48378" +783

@ / A 2 4 D ?

[illegible]

RQ

@/3A<)&B+('<=8*1&+!"#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?++()*, -./01/2/3)45/6+0' /-50;*+ 7#'#8fG;0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3L



```
>EFV4!-F0W'ABCC4D4'B*!4EDFE44!FED\0?B2>K>Z?@
```

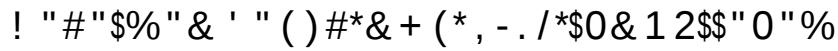
-494-04!'K@--

$\langle T=R \mid MTRP$	$\langle T=R \mid MNSTP$	$\langle T=ROMRL \mid P$	$\langle T=RTMRR=P$
$\langle T=T \mid MNT \mid P$	$\langle T=T \mid MR \mid LP$	$\langle T=TOMNLRP$	$\langle T=TQMN=SP$
$\langle T=TNMR \mid SP$	$\langle T \mid \langle \langle MRL \mid P$	$\langle T \mid \langle \mid MNR \mid P$	$\langle T \mid \langle QMRQQP$
$\langle T \mid \langle LMT \mid SP$	$\langle T \mid \langle NMROLP$	$\langle T \mid \langle RMNSRP$	$\langle T \mid ==MT \mid \mid P$
$\langle T \mid \mid \mid MRLTP$	$\langle T \mid \mid OMN \mid TP$	$\langle T \mid \mid SMRQNP$	$\langle T \mid \mid LMT \mid LP$

[illegible]

RR

@/3A<)&B+('=<8*1&+! "#\$%#& ' + /-^C;0&&B&D&)/A&B+E?++() ^+ , -./01/2/3)45/6+0' /- 50, ^+ 7# ' # 8FG;0&&H'1;+41;D;=F+> ;1;^3 ;+I ;=B1<+J=<D&0'<^?+K/^** ;?;3l



```
>EFV4! -F0W'ABCC4D4'B*!4E DFE44!FE D\0?B 2>K>Z?@
```

K@K4 ! 'K@ - -

@ / A *

@ / D

@ / A 2 4 D ?

/ D

@ / A 2 D

@ / 2 4 ?

?

@ / A 4

*

@ / A 2 * D ?

@ / A 2 D

@ / A 2 * D ?

@ / A 2 * D

@ A 2 D ?

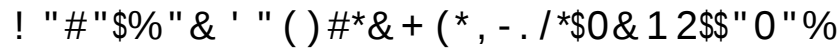
A

@ / A 2 4 * D

[illegible]

RS

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ; 0&+B&D&)/A&B+E?++ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 , * + 7 # ' # 8 f G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D & 0 ' < * ? + K / * * ; ? ; 3 l



```
>EFV4!-F0W'ABCC4D4'B*!4E DFE44!FE D\!0?B 2>K>Z?@
```

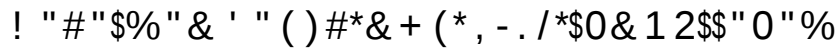
K@K4 ! 'K@ - -

4

[illegible]

S!

7#'#8fG;0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D&0'<?*+K/**;?;3L



```
>EFV4!-F0W'ABCC4D4'B*!4E DFE44!FE D\!0?B 2>K>Z?@
```

K@K4 ! 'K@ - -

A

@ A

@ /

A 2

2

A

@ A

A

@ 2

A

A

A

A 4

4

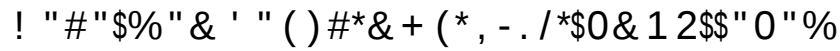
A

A

[illegible]

S''

@/3A<&B+('<=8*1&+! "#\$%#& '+!/-*C;0&+B&D&)/A&B+E?++()'+, -. /01/2/3)45/6+0' /- 50,'+ 7# '#8fG;0&&H'1;+41;D;=F+> ;1; *3 ;+I ;=B1<+J=D&0'<?+K/**;?;3l
--



```
>EFV4!-F0W'ABCC4D4'B*!4E DFE44!FE D\!0?B 2>K>Z?@
```

K@K4 ! 'K@ - -

A 4

A

/

/ A

A

/ 4

/ 4

/

A

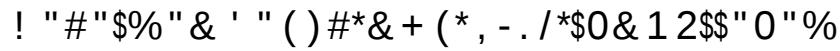
4

A

[illegible]

S\$

@/3A< &B+(' <=8+*1&+! "#\$%#& ' +'/-.*C;0&+B&D&)/A&B+E?++() *+, -. /01/2/3)45/6+0' /- 50' ;* 7# ' # 8fG;0&&H' 1;+41;D;=F+> ;1;.* 3 ;+I ;=B1<+J=<D&0' <?*+K/'** ;?; 3l



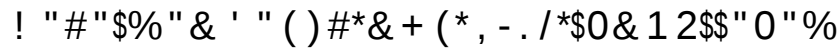
```
!>?@A'B>C2D@'@C-000E04'F*!04GDC FHFBI'A4HHFF!
```

- 4 9 4 - 0 4 ! ' K > - -

%109:33;

! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ [\] ^ _ ` { | } ~ "

@/3A<)&B+('=<8*+1&+!"#\$%#&'+'/-*C;0&&B&D&)/A&B+E?++()'+,-./01/2/3)45/6+0'/-50;'+7#'#8FG;0&&H'1;+41;D;=F>;1;+3;+I;=B1<+J=<D&0'<?+K/**;?;3!
--



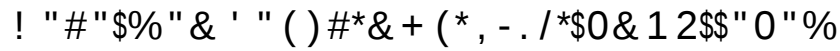
9 > !' > 0D > C > - @E - '4C B @C44 ! @C B 'G FHH4B4' U F 0D > 9 > C B > H > 9

K>K4 ! 'K> - -

> / G 4 * B D

[illegible]

@/3A<&B*('<=8+1&+!'#\$%#&'+'/-.*C;0&&B&D&)/A&B+E?+()*+, -./01/2/3)45/6+0' /-50,'*
7#'#8FG:0&&H'1;+41;D;=F>;1: *3;+I;=B1<+J=<D00'<?+K/**;?;3!



9 > !' > 0D > C > - @E - '4C B @C44 ! @C B 'G FHH4B4' U F 0D > 9 > C B > H > 9

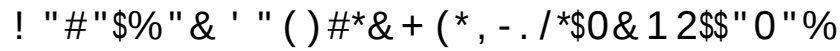
K>K4 ! 'K> - -

> / G 4 * B

[illegible]

S

@/3A<)&B+('<=8*1&+!"#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?++()*, -./01/2/3)45/6+0' /-50;*+ 7#'#8fG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<J=<D&0'<*?+K/**;?;3l
--



9 > !' > 0D > C > - @E - ' 4C B @C 44 ! @CB ' GFHH 4B 4' U F 0D > 9 > CB > H > 9

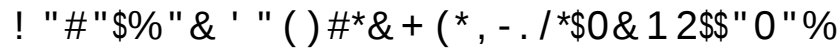
K>K4 ! 'K> - -

* D

[illegible]

"!"

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ;0&+B&D&)/A&B+E?++ () * + , - . /01/2/3)45/6+0 ' /- 50 ; * + 7 # ' # 8fG ;0&&H ' 1 ;+41 ;D ;=F+ > ;1 ; * 3 ;+I ;=B1<+J =D&0 ' <?+K / * ; ? ; 3l



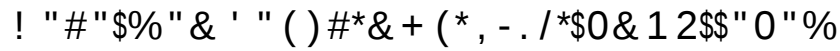
9 > !' > 0D > C > - @E - ' 4C B @C 44 ! @CB ' GFHH 4B 4' U F 0D > 9 > CB > H > 9

K>K4 ! 'K> - -

*

[illegible]

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



9 > !' > 0D > C > - @E - ' 4C B @C44 ! @CB' GFHH4B4' UF0D > 9 > CB > H > 9

K>K4 ! 'K> - -

 $\succ$

G

/ 2

2

4

2

2

G

/

*

2

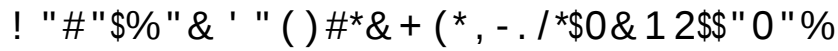
4

/

[illegible]

"\$

@/3A< &B+(' <=8+*1&+! "#\$%#& ' +'/-.*C;0&+B&D&)/A&B+E?++() *+, -. /01/2/3)45/6+0' /-50' ;* 7# ' #8fG;0&&H'1;+41;D;=F+> ;1;.*3 ;+I ;=B1<+J=<D&0'<?*+K/**;?;3l



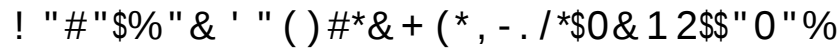
9 > !' / > - 4H@F - '@C - 000E04' F *' 04GDC FHF BI' > C 2' - G@4C G4

- 4 9 4 - 0 4 ! ' K > - -

=RTTSN00<Q	=RTTTNPR<Q	=RTTPN0<TQ	=RTR;NOT;Q
=RTRPNOLTQ	=RTRONOL;Q	=RTORNOL=Q	=RTM;NP;TQ
=RTMRNPM<Q	=RR<;NPMOQ	=RR<LNOL<Q	=RR=LNRO<Q
=RR=TNPTRQ	=RR=RN0;;Q	=RR=PNP<TQ	=RR=ONPSOQ

[illegible]

@/3A<)&B+('=<8*1&+! "#\$%#& ' + /-^C;0&&B&D&)/A&B+E?++() ^+ , -./01/2/3)45/6+0' /-50,*+ 7# #' #8FG;0&&H'1;+41;D;=F+> ;1,*3 ;+I ;=B1<+J=<D&0'<?+K/**;?;3l
--

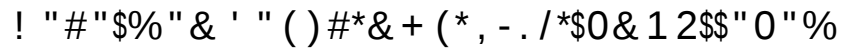


9 > ! ' / > - 4 H @ F - ' @ C - 0 @ 0 E 0 4 ' F * ' 0 4 G D C F H F B I ' > C 2 ' - G @ 4 C G 4

K>K4 ! 'K> - -

[illegible]

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



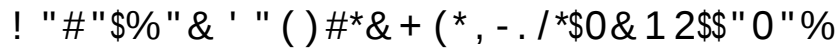
|>2@'-D>CU>!>'@C-000E04'F*!4CB@C44!@CB'>C2'04GDC FHFBI'U>H>2I|

K>K4 ! 'K> - -

2

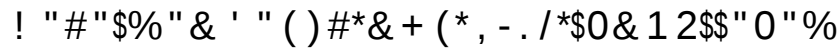
[illegible]

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



```
> 9>H'?IF0D@'4CB@C44!@CB''GFHH4B4'UFFA>KK>HHI'U>C?@!>K>HHI
```

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



> 9>H'?IF0D@'4CB@C44!@CB''GFHH4B4'UFFA>KK>HHI'U>C?@!>K>HHI

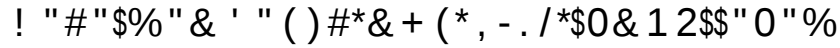
K>K4 ! 'K> - -

> G 4 * B D

[illegible]

\$N

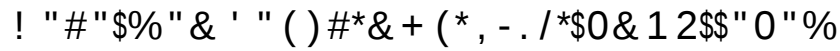
@/3A<)&B+('<=8+*1&+!"#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?++()*+,.-/01/2/3)45/6+0'/-50;*+7#'#8fG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3l
--



```
> 9 > H' ? I F 0 D @ ' 4 C B @ C 4 4 ! @ C B ' ' G F H H 4 B 4 ' U F F A > K K > H H I ' U > C ? @ ! > K > H H I
```

> G * B D

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



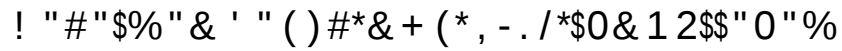
> 9 >H' ? I F 0 D @ ' 4 C B @ C 4 4 ! @ C B ' ' G F H H 4 B 4 ' U F F A > K K > H H I ' U > C ? @ ! > K > H H I

K>K4 ! 'K> - -

G

[illegible]

@/3A<|&B*(' <=8+1&+! "#\$%#&' +/ -.*C;0&&B&D&)/A&B+E?+() +, -. /01/2/3)45/6+0' / - 50, +*
7# ' # 8F&G0&&H' 1;+41;D;=F+> ;1; *3 ;+I ;=B1<+J=<D00'<?+K/**;?; 3l



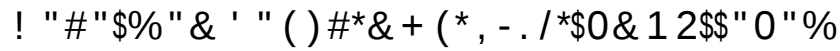
G>>! 9 4H!4C B@C44!@C B'GFHH4B4'K4!@C>2 E'!>C C@

- 4 9 4 - 0 4 ! ' K > - -

=T;LMNM;=Q	=T;T=N00TQ	=T;R=N0;RQ	=T;R;NPT<Q
=T;RLNPRPQ	=T;RTNPR;Q	=T;PPNO=MQ	=T;O<N0;=Q
=T;OSNO=SQ	=T;OPNPOLQ	=T;MMN00SQ	

[illegible]

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



G>>! 9 4H'4C B@C44!@C B'G FHH4B4'K4!@C>2 E'!>CC@

K>K4 ! 'K> - -

B D

> / G 4 B D

	G	B	D
/			

> B D

> G B D

> / G 4 * B D

$$\frac{G}{2} \geq B$$
$$\underline{;=T;T<}$$

* B

> / G 4 B D

$$:=T;TS$$
$$G \ast B \supset D$$

> / G 4 * B D

$$:= T; TT$$
$$\geq G * B D$$
$$\vdash T : TM$$
$$\geq \frac{2}{3} \quad B \quad D$$
 $\cdot = T \cdot P \leq$

R

• -T• DC

D

1. PRO

—T: PD

$$\frac{1}{\sqrt{1 - \frac{v^2}{c^2}}}$$

B **D**

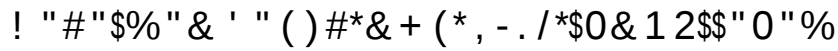
[illegible]

! "#\$%&'()*+,-./:;?@

%&'()*+,-./0123456789:;=<.*>?@\$!""

\$R\$

@/3A<|&B+(' <=8+*1&+! "#\$%#& ' +! /- *C;0&B&D&)/A&B+E?++() *+, -. /01/2/3)45/6+0 ' /- 50, *+
7# ' # 8FG;0&&H ' 1;+41;D;=F+> ;1; *3 ;+I ;=B1<+J =<D&0 ' <?+K/ ** ;? ;3L



G>>! 9 4H'4C B@C44!@C B'GFHH4B4'K4!@C>2 E'!>CC@

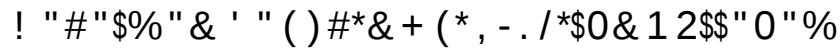
K>K4 ! 'K> - -

G 2 * B D

[illegible]

\$\$

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ;0&+B&D&)/A&B+E?++ () * + , - . /01/2/3)45/6+0 ' /- 50 ; * + 7 # ' # 8fG ;0&&H ' 1 ;+41 ;D ;=F+ > ;1 ; * 3 ;+I ;=B1<+J =D&0 ' <?+K / * ; ? ; 3l



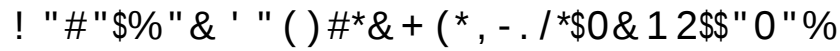
G>>! 9 4H'4C B@C44!@C B'GFHH4B4'K4!@C>2 E'!>CC@

K>K4 ! 'K> - -

B

[illegible]

7#'#8FG;0&&H'1;+41;D;=f+>;1;^3;+I;=B1<+J=<D&0'<?+K/**;?;3L



424!>H!@C-0@0E04!F-G@4CG4!>C2!04GDCFHFB I!9FFU>CCE!'

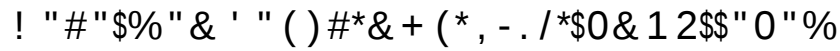
/+681, J' 9 "1, 68716% '48378 " "+783

=LOP;NPORQ	=LOPSNPTQ	=LOPRNM<<Q	=LOPPNPM<Q
=LOPONPMTQ	=LOO;NOTSQ	=LOOSNP00Q	=LOOLNPRSQ
=LOORNPLMQ	=LOM=NPMTQ	=LOM;NOMSQ	=LM<SNO<PQ
=LM<TNOOMQ	=LM==NO=TSQ	=LM=LMNPSQ	=LM=TNPSQ
=LM;=NPOSQ	=LM;;N<SQ	=LMS=NO<TQ	=LMSLNOPSQ
=LMSTNO;TQ			

[illegible]

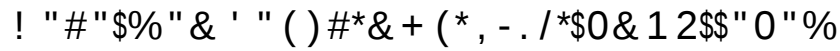
%&'()*+,-./:0123456789;<=>?@!#\$%'

@/3A<|&B*('=>+1&+! "#\$%#&' +/-.^C;0&+B&D&)/A&B+E?+() ^+,-./01/2/3)45/6+0' /-50;^+
7#'#8F&G0&&H'1;+41;D;=F+>;1;^3;+I;=B1<+J=<D00'<^?+K/**;?;3l



```
*424!>H!@C-0@0E04!F*-G@4CG4!>C2!04GDC FHFBI'9FFU>CCE!'
>CB>9>H@
```

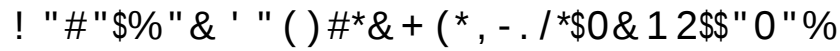
@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



424!>H'@C-000E04'F-G04CG4'>C2'04GDCFHFB I'9FFU>CCE!'>CB>9>H@
/ +681, J' 9 "1, 68716% '48378 " " +783

$$G \times B \rightarrow D$$
[illegible]

@/3A<&B*('<=8+1&+!'#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?+()*+, -./01/2/3)45/6+0' /-50,'*
7#'#8FG:0&&H'1;+41;D;=F>;1: *3;+I;=B1<+J=<D00'<?+K/**;?;3!



```

@H>D@>'GFHH4B4'F*'4CB@C44!@CB'>C2''04GDC FHFBI'9EH>AFF!'
          9FFA>00EKEVD>

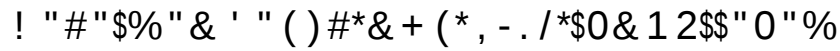
```

K>K4 ! 'K> - -

> / G 4 * B D

[illegible]

@/3A< &B+(' <=8*1&+! "#\$%#& ' +! /-*C;0&&B&D&)/A&B+E?+() *+, -. /0 1/2/3)4 5/6+0 ' /- 50; *+ 7# ' #8FG;0&&H'1;+41;D;=F+>;1; * 3 ;+I ;=B1<+J=<D&0'<*?+K/ ** ;?; 3L
--



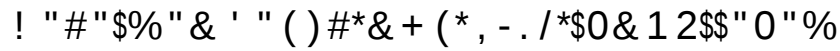
9>CB>H>9'GFHH4B4'F*!4CB@C44!@CB'400E9>CFF!

K>K4 ! 'K> - -

/ * B D

[illegible]

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ; 0&+B&D&)/A&B+E?++ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 , * + 7 # ' # 8 f G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D & 0 ' < * ? + K / * * ; ? ; 3 l



9>CB>H>9'GFHH4B4'F*!4CB@C44!@CB'400E9>CFF!

K>K4 ! 'K> - -

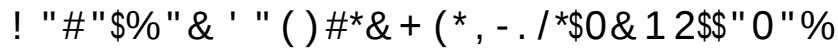
%109:33;

! "#\$!#\$!""

%&'()*+,-./:0*1+2&3&'&0+4+5&61+7&80&&9:;3<=;'</=++>;?;\$!"#

NM

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ; 0&+B&D&)/A&B+E?++ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 , * + 7 # ' # 8 f G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D & 0 ' < * ? + K / * * ; ? ; 3 l



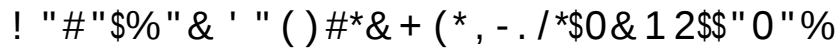
9>CB>H>9'GFHH4B4'F*!4CB@C44!@CB'400E9>CFF!

K>K4 ! 'K> - -

4 *

[illegible]

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l

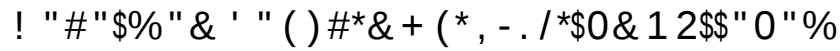


9 > !' / > - 4H@E - 'GD ! @ - 0@ > C 'G FHH4B4' F * '4C B@C44 ! @C B' > C 2 '04GDC FHFBI'
K44! 9 > 24

/+681, J' 9 "1, 68716% 48378" "+783

$$> / 4 * B D$$
[illegible]

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



```
9>!' />-4H@E-'GD!@-00>C'GFHH4B4'F*!4CB@C44!@CB'>C2'04GDC FHFBI'|
K44! 9>24
```

+/+681, J' 9 "1, 68716%148378""+783

$$> \quad / \quad 4 \quad * \quad B \quad D$$
$$G \ast B \supset D$$

* B

> / G 4 * B D

/ * D

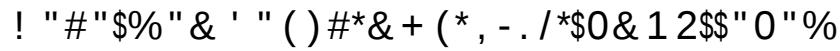
/ * B

> 4 * B D

[illegible]

NQ

@/3A<)&B+('=<8*1&+! "#\$%#& ' + ' /- *C;0&&B&D&)/A&B+E?+() *+, -. /01/2/3)45/6+0' /- 50; *+ 7# ' #8fG;0&&H'1;+41;D;=f+> ;1; *3 ;+I ;=B1<+J=<D&0'<*?+K/**; ?; 3l



```
9 E ->H@>!'GFHH4B4'F*!4CB@C44!@CB'>C2'04GDC FHFBI'UE9 />VD>'
K>0D>C>90D@00>
```

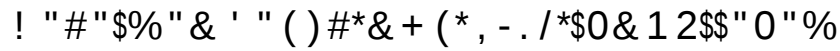
/+681, J' 9 "1, 68716% '48378 " " +783

/ 4 *

[illegible]

0!

@/3A<)&B+('=>+1&+! "#\$%#& ' + /- * C;0&+B&D&)/A&B+E?++() +, -. /0 1/2/3)4 5/6+0 ' /- 50;+ 7# ' # 8fG;0&&H'1;+41;D;=f+> ;1; * 3 ;+I ;=B1<+J=<D&0'<+?+K/**;?; 3L



```
9 E ->H@>!'GFHH4B4'F*'4CB@C44!@CB'>C2'04GDC FHFBI'UE9 />VD>'
K>0D>C>90D@00>
```

/+681, J' 9 "1, 68716% 48378" "+783

*

G

 $\vee$ $\vee$

✓

G

G

 γ $\succ$

✓

*

 $\geq$

✓

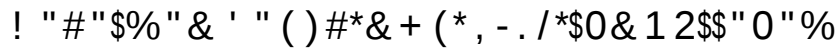
2

*

[illegible]

0''

@/3A< &B('<=8*1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?++()*, -./01/2/3)45/6+0'/-50;*+7#'#8Fg;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3L



-G9--GDFFH'F*!4CBBW'X'04GDCFHFB'I'U>!EUE00I

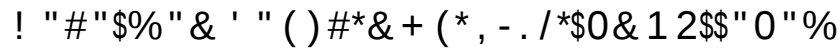
- 4 9 4 - 0 4 ! ' K > - -

;=TPL;NPM=Q	;=TPLLN0=SQ	;=TPLTNOT<Q	;=TPLPNP0;Q
;=TPT<NO=OQ	;=TPT;NO=MQ	;=TPTSNO<MQ	;=TPTRNPMLQ
;=TPTONM;OQ	;=TPTMNP;<Q	;=TPR;NOT;Q	;=TPRLNPM;Q
;=TPRTNPMTQ	;=TPRRNO0=Q	;=TPRPNO=TQ	;=TPRONO=RQ
;=TPRMNPPTQ	;=TPP;NO=TQ	;=TPPLNM=PQ	;=TPPONOL<Q
;=TPPMNO<SQ	;=TPMRNOTMQ	;=TO<<NML;Q	;=TO<SNOLLQ
;=TO<TNMORQ	;=TO<RNOPLQ	;=TO<PNPTPQ	;=TO<MNOM<Q
;=TO=<NOOMQ	;=TO=;NOPPQ	;=TO=LNORRQ	;=TO=PNM;=Q
;=TO=MNO;OQ	;=TO;;NPTLQ	;=TO;SNM<PQ	;=TO;PNMR<Q
;=TO;ONO;MQ	;=TOS<NOTRQ	;=TOS;NMLTQ	;=TOSSNOTPQ
;=TOSLNM=LQ	;=TOL<NOM;Q	;=TOL=NOPRQ	;=TOLTNPMSQ
;=TOT<NM<=Q	;=TOTSNOP;Q	;=TOTTNM<OQ	;=TOTRNM<TQ
;=TOTPNOR;Q	;=TOTMNOPLQ		

[illegible]

0\$

@/3A<|&B*('=>+1&+! "#\$%#& ' + / - * C ; 0&+B&D&)/A&B+E?++() * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 ' ; +
7 # ' # 8 F G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D 0 ' < ? + K / ** ; ? ; 3 l



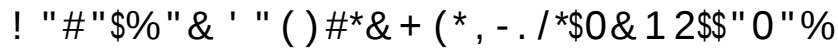
- G 9 - ' - G D F F H ' F * ' 4 C B B W ' X ' 0 4 G D C F H F B I ' U > ! E U E 0 0 I

K>K4 ! 'K> - -

> / G * B D

[illegible]

@/3A< B*(' <=8+*1&+ ! "#\$%#& ' + ' /-.*C;0&+B&D&)/A&B+E?+ () *+, -. /01/2/3)45/6+0 ' /-50,*+ 7# ' #8Fg;0&&H'1;+41;D;=F+> ,1; *3 ;+I ;=B1< J=<D&0'<?+K/**;?; 3l
--

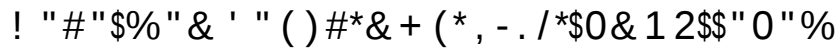


- G 9 - ' - G D F F H ' F * ' 4 C B B W ' X ' 0 4 G D C F H F B I ' U > ! E U E 0 0 I

K>K4 ! 'K> - -

$$G \rightarrow B \rightarrow D$$
[illegible]

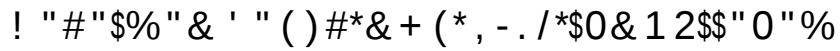
@/3A< &B(' '<=+*1&+! "#\$%#& ' + ' / - * C ; 0&+B&D&)/A&B+E?+ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 ; * + 7 # ' # 8 F G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > , 1 ; * 3 ; + I ; = B 1 < J = < D & 0 ' < * ? + K / * * ; ? ; 3 l
--



- G 9 - ' - G D F F H ' F * ' 4 C B B W ' X ' 0 4 G D C F H F B I ' U > ! E U E 0 0 I

K>K4 ! 'K> - -

@/3A<&B+('<=8*1&+! "#\$%#& '+!/-*C;0&+B&D&)/A&B+E?+()*+, -. /01/2/3)45/6+0' /- 50,*+ 7# '#8fG;0&&H'1;+41;D;=F+> ;1;*3 ;+I ;=B1<+J=D&0'<?+K/**;?;3l

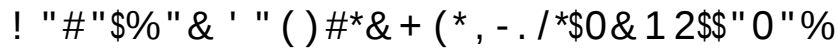


- G 9 - ' - G D F F H ' F * ' 4 C B B W ' X ' 0 4 G D C F H F B I ' U > ! E U E 0 0 I

K>K4 ! 'K> - -

G

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ;0&+B&D&)/A&B+E?++ () * + , - . /01/2/3)45/6+0 ' /- 50 ; * + 7 # ' # 8fG ;0&&H ' 1 ; +41 ; D ; =F+ > ; 1 ; * 3 ; + I ; =B1<+J =<D&0 ' <?+K / ** ; ? ; 3l
--



```
- !44!C>!>I>C>'BE!EUEH>9'GFHH4B4'F*!4CB@C44!@CB'UFH4CGD4!!I
```

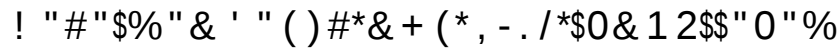
- 4 9 4 - 0 4 ! ' K > - -

$;T < L; NORPQ$	$;T < LPNOMTQ$	$;T < LONPP;Q$	$;T < LMNOR=Q$
$;T < T=NM<RQ$	$;T < T;NPPSQ$	$;T < TPNPTMQ$	$;T < TONPRLQ$
$;T < TMNOMOQ$	$;T < R=NOTSQ$	$;T < R;NMT=Q$	$;T < RLNM=LQ$
$;T < RPNO;MQ$	$;T < PRNOTMQ$	$;T < O=NO<RQ$	$;T < O;NO==Q$
$;T < OLNOL;Q$	$;T < OTNPRRQ$	$;T < OPNOLSQ$	$;T < OONO<OQ$
$;T < MSNPTRQ$	$;T < MLNOSMQ$	$;T < MTNO;RQ$	$;T < MPNOPOQ$
$;T = <<NM<TQ$	$;T = <SNM;OQ$	$;T ==PNPLRQ$	$;T =;=NOM;Q$
$;T =;SNPTOQ$	$;T =S=N=<<<Q$	$;T =SSNMSLQ$	$;T =SPNO;Q$
$;T =SMNOSLQ$	$;T =L=NOPSQ$	$;T =L;NO=LQ$	$;T =LSNPL=Q$
$;T =LLNPRRQ$	$;T =LRNO;RQ$		

[illegible]

OR

@/3A<)&B+('<=8+*1&+!"#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?++()*+,.-/01/2/3)45/6+0' /-50;*+ 7# #' #8fG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3l
--



```
- !44'C>!>I>C>'BE!EUEH>9'GFHH4B4'F*!4CB@C44!@CB'UFH4CGD4!!I|
```

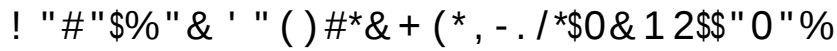
K>K4 ! 'K> - -

%109:33;

! "#\$%&'()*+,-./:;?@

P!

@/3A<)&B+('=<+8*1&+! " # \$ % # & ' + ' / - * C ; 0 & + B & D &) / A & B + E ? + () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 ; * + 7 # ' # 8 f G ; 0 & & H ' 1 ; + 4 1 ; D ; = f + > ; 1 ; * 3 ; + I ; = B 1 < J = < D & 0 ' < * ? + K / * * ; ? ; 3 l



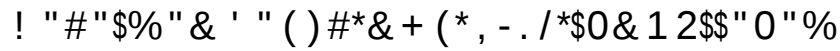
```
| - !44'C>!>I>C>'BE!EUEH>9'GFHH4B4'F*!4CB@C44!@CB'UFH4CGD4! ! I |
```

K>K4 ! 'K> - -

4 * D

[illegible]

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?++()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



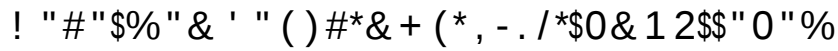
```
- !44'C>!>I>C>'BE!EUEH>9'GFHH4B4'F*!4CB@C44!@CB'UFH4CGD4!!I|
```

K>K4 ! 'K> - -

> G 2 4 * B D

```
000000000000000000000000 (<= "
7)6+.)33/.0)*0#$-5:6-+:)6;
```

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
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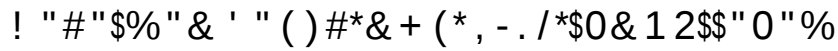


```
| - !44'C>!>I>C>'BE!EUEH>9'GFHH4B4'F*!4CB@C44!@CB'UFH4CGD4! ! I |
```

K>K4 ! 'K> - -

/

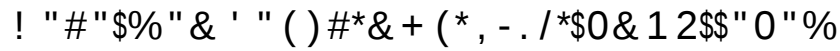
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7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



```
->@C0B@0-'GFHH4B4'F*!4CB@C44!@CB'K>0D>9E00F9'U09
```

K>K4 ! 'K> - -

@/3A< &B+(' <=8+*1&+! "#\$%#& ' +'/-.*C;0&+B&D&)/A&B+E?++() *+, -. /01/2/3)45/6+0' /- 50' ;* 7# ' # 8fG;0&&H' 1;+41;D;=F+> ;1;.* 3 ;+I ;=B1<+J=<D&0' <?*+K/**;?; 3l



```
->@C0B@0-'GFHH4B4'F*!4CB@C44!@CB'K>0D>9E00F9'U09
```

K>K4 ! 'K> - -

$$G \times B \rightarrow D$$

> / G 4 * B D

$$G \times B \rightarrow D$$

> / G 4 * B D

G * B D

> / G 4 * B D

> / G 4 * B D

$$G \rightarrow B \rightarrow D$$
$$G \rightarrow B \rightarrow D$$

/	G	2	4	*	B	D
---	---	---	---	---	---	---

> / G 2 * B D

> / G 2 * B D

> / G 2 * B D

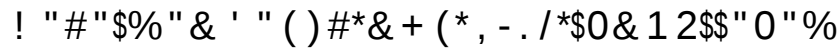
$$G \times B \rightarrow D$$

> / G 2 * B D

$$G \rightarrow B$$
[illegible]

PP

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ;0&+B&D&)/A&B+E?++ () * + , - . /01/2/3)45/6+0 ' /- 50 ; * + 7 # ' # 8fG ;0&&H ' 1 ;+41 ;D ;=F+ > ;1 ; * 3 ;+I ;=B1<+J =D&0 ' <?+K / * ; ? ; 3l

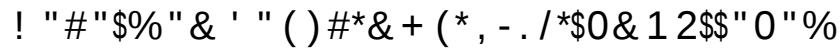


```
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```

K>K4 ! 'K> - -

$$G \times B \rightarrow D$$
[illegible]

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?++()*,,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



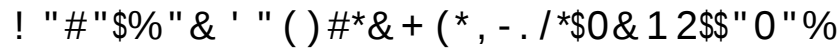
```
->@C0B@0-'GFHH4B4'F*!4CB@C44!@CB'K>0D>9E00F9'U09
```

K>K4 ! 'K> - -

/

[illegible]

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



```

-!44'C>!>I>C>'9>CB>H>9'0C-000E04'F*-G04CG4'>C2'04GDC FHFBI'
CF!0D'K>!E!

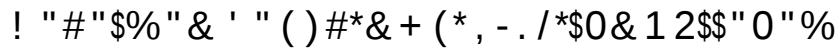
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K>K4 ! 'K> - -

2

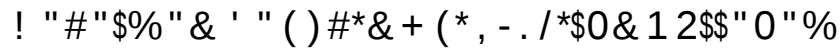
[illegible]

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



```
!>?@A'B>C2D@@C-000E04'F*'04GDCFHFB I'A4HHFF!
```

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



```
!>?@A'B>C2D@@C-@@@E@4'F*'04GDCFHFBII'A4HHFF!
```

L > L4 ! ' L > - -

> / G 4 * B D

> / G 4 * B D

> 4 * D

> *

> / G 4 * B D

> G 4 * B D

> / * B D

$$\frac{2}{4} \cdot B \cdot D$$

> / G 4 B D

$$\frac{G}{2} \geq B$$

> / 2 4 * B D

> / G 4 * B D

> / G 2 * B D

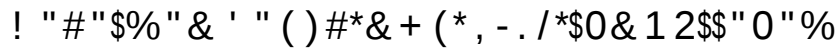
$$\geq \frac{4}{3} \cdot D$$
$$2 * B D$$

2 4 B D

[illegible]

M

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ; 0&+B&D&)/A&B+E?++ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 , * + 7 # ' # 8 f G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D & 0 ' < * ? + K / * * ; ? ; 3 l



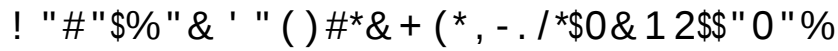
```
!>?@A'B>C2D@@C-@@@E@4'F*'04GDCFHFBII'A4HHFF!
```

L > L4 ! ' L > - -

G

[illegible]

7#'#8fG;0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D&0'<^?+K/**;?;3L



BFA0V'GFHH4B4'F* '4CB@C44!@CB'L>@C>AE

L > L4 ! ' L > - -

> / *

> 4 B D

$$\frac{2}{4} \cdot B \cdot D$$

> / G 4 * B D

> / * B D

> / * B D

$$\frac{1}{2} \cdot B \cdot D$$

> / * B D

$$/ \quad G \quad 2 \quad * \quad B \quad D$$

> / G 2 * B D

$$G \rightarrow B \rightarrow D$$

> 4 * B D

$$\frac{4}{5} \times B \times D$$

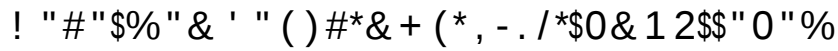
> / 2 4 * B D

> / 2 4 B D

$$\frac{1}{4} \times B \times D$$
[illegible]

%&'()*+,-./0123456789:;<=;>?@A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [\] ^ _ ` { | } ~

@/3A<|&B+('=<8+¹1&+ !"#%#& ' +!/-^{*}C;0&&B&D&)/A&B+E?+()⁺*, -. /01/2/3)45/6+0¹ /-50,⁺
7#¹ #8F&G;0&&H¹;+41;D;=F+>;1;^{*}3 ;+I ;=B1<+J=<D&0¹<⁺?+K/⁺;?;;3l



BFA0V'GFHH4B4'F*4CB@C44!@CB'L>@C>AE

L > L4 ! ' L > - -

$$> \quad / \quad G \quad 2 \quad * \quad B \quad D$$
$$\gamma \quad / \quad B$$

> / G 4 * B D

4 B D

> / 4 B D

4 B D

$$> \quad / \quad G \quad 2 \quad * \quad B \quad D$$

> 2 B D

$$\frac{2}{4} \cdot \frac{1}{2} = \frac{1}{4}$$
$$> / 4 * B D$$
$$> \quad / \quad 4 \quad * \quad B \quad D$$

4 * B D

> / G 4 * B D

> / 2 4 * B D

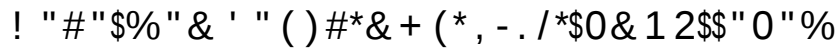
$$\frac{2}{B} > \frac{1}{D}$$

/ G 2 * B D

[illegible]

S

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ; 0&+B&D&)/A&B+E?++ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 ' , * + 7 # ' # 8 f G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D & 0 ' < * ? + K / * * ; ? ; 3 l



BFA0V'GFHH4B4'F* '4CB@C44!@CB'L>@C>AE

L > L4 ! ' L > - -

* B

G * B

$$/ \quad G \quad 2 \quad * \quad B$$

B

* B D

/ G

2

/ G

/

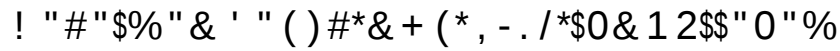
/

/

[illegible]

!"

7#'#8fG;0&&H'1;+41;D;=F>;1;^3;+I;=B1<+J=<D&0'<^?+K/**;?;3L



```
!>?>B@!@'GFHH4B4'F*!4CB@C44!@CB'>C2'04GDC FHFBI
```

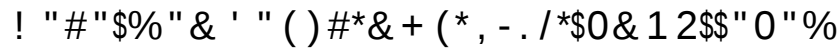
-494-04! 'L>--

```
%109:33;
```

! "#\$!#\$!""

11

@/3A<)&B+('=<8*+1&+!"#\$%#&'+'/-*C;0&&B&D&)/A&B+E?++()'+,-./01/2/3)45/6+0'/-50;'+7#'#8FG;0&&H'1;+41;D;=F>;1;+3;+I;=B1<+J=<D&0'<?+K/**;?;3!
--



```
!>?>B@!@'GFHH4B4'F*!4CB@C44!@CB'>C2'04GDC FHFBI
```

L > L4 ! ' L > - -

G B

$$\frac{2}{4} \cdot B \cdot D$$
$$\frac{2}{4} \cdot \frac{1}{2} = \frac{1}{4}$$

> G 4 * B D

> / G 4 * B D

> 4 B D

> / G 4 * B D

$$\frac{G}{2} \cdot 4^* D$$

> / G 2 4 B D

$$V \quad * \quad B$$

> / 4 * B D

> / G 4 * B D

> / 4 * B D

> / G 2 4 * B

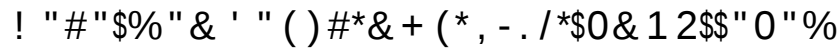
G

4

[illegible]

%&'()*+,-./:012&3456789:;=<?@A[\\]^_`{|}~

@/3A<|&B+(' <=8+*1&+! "#\$%#& ' +'/-.*C;0&+B&D&)/A&B+E?++() *+, -. /01/2/3)45/6+0' /-50;'+
7# ' #8fG;0&&H'1;+41;D;=F+> ;1; *3 ;+I ;=B1<+J=<D&0'<?+K/**;?;3!



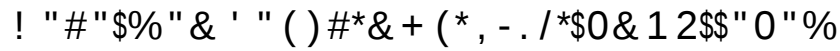
9 > !' > 0D > C > - @E - '4C B @C44 ! @C B 'G F H H4B4' W F 0D > 9 > C B > H > 9

L>L4!'L>- -

> / 2 4 * B D

```
000000000000000000000000 (<="
7)6+.)33/.0)*0#$-5:6-+:)6;
```

7#'#8fG;0&&H'1;+41;D;=f+>;1;^3;+I;=B1<+J=<D&0'<^?+K/**;?;3L



9 > !' > 0D > C > - @E - ' 4C B @C 44 ! @CB ' GFHH 4B 4' WF 0D > 9 > CB > H > 9

L > L4 ! ' L > - -

$$> \quad / \quad 4$$

> / G 2 4 * B

$$\frac{4}{5} \times \frac{1}{2} = \frac{2}{5}$$
$$\geq \quad / \quad *$$

*

$$\frac{2}{4} \times 2 = 1$$

> / G 2 4 * B

> B

> / G 4 * B D

$$G \rightarrow B \rightarrow D$$

> / G 4 * B D

$$G \rightarrow B \rightarrow D$$
$$\geq \frac{4}{3} \cdot D$$

> / G 4 * B D

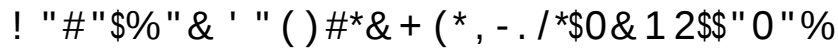
> / G 4 * B D

> / G 4 * B D

```
00000000000000000000000000 (<="
7)6+.)33/.0)*#$-5:6-+:)6;
```

"P

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ; 0&+B&D&)/A&B+E?++ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 , * + 7 # ' # 8 f G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D & 0 ' < * ? + K / * * ; ? ; 3 l



9 > !' > 0D > C > - @E - ' 4C B @C44 ! @CB' GFHH4B4' WF0D > 9 > CB > H > 9

L > L4 ! ' L > - -

$$\frac{1}{4} B$$
$$\geq \quad * \quad D$$

> / G 4 * B D

> / G 4 * B D

> / G 4 * B D

$$\geq \quad / \quad G \quad *$$
$$G \rightarrow B$$

> G 4 * B D

$$4 * D$$

$\geq$ $*$ B

/ G 2 B

$$> \quad / \quad * \quad B$$

> / G 2 * B D

$$G \rightarrow B \rightarrow D$$

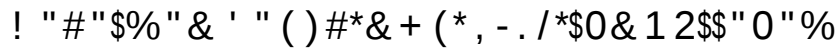
> 4 * B D

> / G 4 * B D

[illegible]

"Q

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ; 0&+B&D&)/A&B+E?++ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 , * + 7 # ' # 8 f G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D & 0 ' < * ? + K / * * ; ? ; 3 l



9 > !' > 0D > C > - @E - ' 4C B @C 44 ! @CB ' GFHH 4B 4' WF 0D > 9 > CB > H > 9

L > L4 ! ' L > - -

G * B

$$G \quad * \quad B$$

> G 4 * B

$$> / 2 * B$$

$\geq$ * B D

G

*

4

*

2

4

/ G

4

G

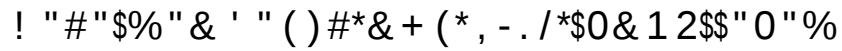
G

G

[illegible]

"R

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ;0&+B&D&)/A&B+E?++ () * + , - . /01/2/3)45/6+0 ' /- 50 ; * + 7 # ' # 8fG ;0&&H ' 1 ;+41 ;D ;=F+ > ;1 ; * 3 ;+I ;=B1<+J =D&0 ' < * ?+K / * * ; ? ; 3l
--

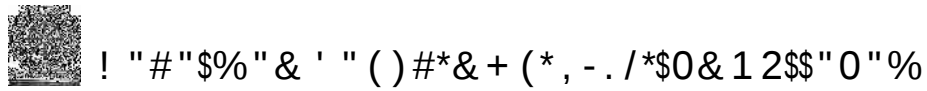


9 > !' > 0D > C > - @E - ' 4C B @C 44 ! @CB ' GFHH 4B 4' WF 0D > 9 > CB > H > 9

/

[illegible]

@/3A<|&B+'(<=8+1&+!"#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?+()*,,-./01/2/3)45/6+0'/-50;'+
7#'#8F&G;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



! "#\$%&'()*+,-./:;<=

?>@'/D> !>0D'GFHH4B4'F *' 9 >C>B494C0'>C 2'04GDC FHFBI

/+681, J'4%"1&+716%'68K'4%"1&+(871#'48378""+783

-494-04!'L>- -

:=SN;;0MPRQ

;=SNN=0MUUQ

;S N N U 0 M = R Q

;=SNNM0M=UQ

%109:33;

00000000000000000000000000000000 (<="

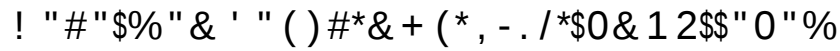
7)6+.)33/.0)*0#\$-5:6-+:)6;

! "#\$!#\$!""

%&'()*+,-./:0*1+2&3&'*&0+4+5&6+7&80&&+9:;3<=;'</=++>;?;\$!"#\$

\$!

@/3A<|&B+('(<=8:*1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()*,.-./01/2/3)45/6+0'/-50;*>
7# ' #8fG;0&&H'1;+41;D;=f+>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3l



?>@'/D>!>0D'GFHH4B4'F*!9>C>B494C0!>C2!04GDC FHFBI

L > L4 ! ' L > - -

$$\frac{2}{4} \cdot \frac{1}{2} = \frac{1}{4}$$

> * B D

D

$\succ$ $*$ B D

> 4 * B D

> / B D

$$G \rightarrow B \rightarrow D$$
$$\succ \quad * \quad B \quad D$$

> B D

$$\frac{2}{B} \geq \frac{2}{D}$$

> 4 * B D

> B

$$\frac{4}{B} \cdot D$$

> 4 * B D

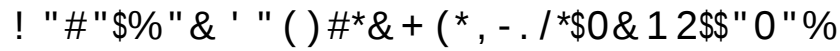
> G 4 * B D

> 4 B D

[illegible]

%&'()*+,-./:0*1+2&3&'&0+4+5&61+7&80&&9:;3<=;'</=++>;?;\$!"#

@/3A<)&B+(' <=8+*1&+! "#\$%#& ' + / - * C ; 0&+B&D&)/A&B+E?+() *+, - ./01/2/3)45/6+0' / - 50; *+
7# ' # 8fG;0&&H'1;+41;D;=F+> ;1; *3 ;+I ;=B1<+J=<D&0'<?+K/**;?; 3l



-----| ?>@'/D>!>0D'GFHH4B4'F* '9>C>B494C0'>C2'04GDC FHFBI |-----

L > L4 ! ' L > - -

> B D

4 B D

$$\frac{4}{5} \times \frac{1}{2} = \frac{2}{5}$$

> B

B D

B

> / G 4 * B D

$$G \rightarrow B \rightarrow D$$

* B D

B

B D

B D

G B D

B

> / G 4 * B D

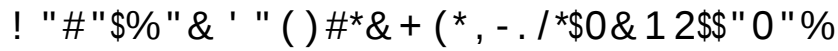
> / G 4 * B D

[illegible]

%&'()*+,-./:0*1+2&3&'*&0+4+5&61+7&80&&9:;3<=;'</=++>;?;\$!"#

\$\$

@/3A<)&B+('<=8*1&+!"#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?++()*, -./01/2/3)45/6+0' /-50;*+ 7#'#8fG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<J=<D&0'<*?+K/**;?;3L
--



?>@'/D>!>0D'GFHH4B4'F* '9>C>B494C0'>C2'04GDC FHFBI

L > L4 ! ' L > - -

> G 4 * B D

> / G 4 * B D

> B D

> / G 4 * B D

$$> \quad / \quad B$$

> * B D

> / G 4 * B D

> B D

* B

> B D

> / G 4 * B D

B

$\succ$ $*$ B D

D

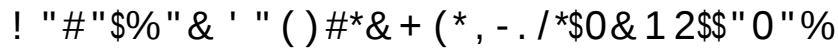
D

> / * B D

[illegible]

%&'()*+,-./:012&3&'&0+4+5&61+7&80&&9:;3<=,*</=++>;?@\$!"#

@/3A<)&B+('=<+*1&+!"#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+7#'#8Fg;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3l
--



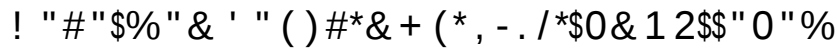
```
@C2@!>'B>C2D@'GFHH4B4!F*!4CB@C44!@CB'*F!'XF94C
```

-494-04! 'L> - -

;;=S=0MUMQ	;;=ST0MNUQ	;;=N<S0MM=Q	;;=N;<0MT=0
;;=N;=0MMTQ	;;=N;N0RNNQ	;;=N;P0MRSQ	;;=NN;0R=RQ
;;=NNN0S<RQ	;;=NNT0S<TQ	;;=NNP0MSPQ	;;=NNU0MRRQ
;;=NNR0MMTQ			

[illegible]

@/3A<)&B+('=<8*1&+!"#\$%#&'+'/-*C;0&&B&D&)/A&B+E?++()*+,-./01/2/3)45/6+0'/-50,*+7#'#8FG;0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D&0'<*?+K/**;?;3l
--



```
@C2@!>'B>C2D@GFHH4B4!F*!4CB@C44!@CB!*F!'XF94C
```

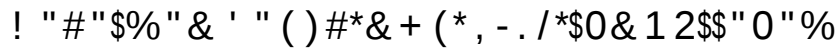
L > L4 ! ' L > - -

D

[illegible]

\$Q

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ;0&+B&D&)/A&B+E?++ () * + , - . /01/2/3)45/6+0 ' /- 50 ; * + 7 # ' # 8fG ;0&&H ' 1 ; +41 ; D ; =F+ > ; 1 ; * 3 ; + I ; =B1<+J =<D&0 ' <?+K / ** ; ? ; 3l
--



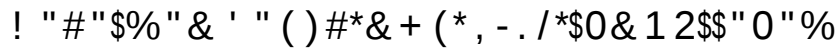
```
>2@'-D>CW>!>'@C-0@0E04'F*!4CB@C44!@CB!>C2'04GDC FHFBI'W>H>2I
```

-494-04! 'L>--

$;=S=P=0S<NQ$	$;=S=PT0=<MTQ$	$;=S=PM0MPMQ$	$;=S=PS0S<PQ$
$;=S=U<0RP<Q$	$;=S=UN0SM=Q$	$;=S=R;0=<;TQ$	$;=S=RN0RSPQ$
$;=S=RT0SP<Q$	$;=S=M=0M<;Q$	$;=S=MR0MU<Q$	$;=S=MM0RSRQ$
$;=S=S<0STTQ$	$;=S=S=0SN;Q$	$;=S=SP0=<<RQ$	$;=S=SU0SPSQ$
$;=S; <P0M<MQ$	$;=S; <M0STTQ$		

[illegible]

@/3A<)&B+('≤8*1&+!"\$%#&'+'/-*C;0&+B&D&)/A&B+E?++()*)+, -./01/2/3)45/6+0' /-50;*+7# #'8FG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=D&0'<?+K/'**;;?;3l



| > 2@' - D>CW> ! > '@C - 0@0E04' F *' 4CB@C44! @CB' > C 2' 04GDC FHFBI'W>H>2I

L > L4 ! ' L > - -

> 4 D

> / G 4 * B D

> / G 4 * B D

> / G 4 * B D

$$; \equiv S \equiv PR$$

> G 4 * B D

:=S=U;

> B D

; $\mathbf{S}=\mathbf{U}\mathbf{T}$

> / G 4 * B D

; Σ =UP

4 B D

;=S=UU

$\geq$ / G 4 * B D

$$;=S=UR$$

≥ G 4 B D

$$;=S=UM$$

> G 4 B D

$$;=S=US$$
 $\geq \quad / \quad G \quad 4 \quad * \quad B \quad D$
$$:=S=R<$$

γ / G 4 * B

$$:=S=R=$$

V G A * B

 $\cdot = S = RP$

	C	A	*	B	D
1	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00
32	0.00	0.00	0.00	0.00	0.00
33	0.00	0.00	0.00	0.00	0.00
34	0.00	0.00	0.00	0.00	0.00
35	0.00	0.00	0.00	0.00	0.00
36	0.00	0.00	0.00	0.00	0.00
37	0.00	0.00	0.00	0.00	0.00
38	0.00	0.00	0.00	0.00	0.00
39	0.00	0.00	0.00	0.00	0.00
40	0.00	0.00	0.00	0.00	0.00
41	0.00	0.00	0.00	0.00	0.00
42	0.00	0.00	0.00	0.00	0.00
43	0.00	0.00	0.00	0.00	0.00
44	0.00	0.00	0.00	0.00	0.00
45	0.00	0.00	0.00	0.00	0.00
46	0.00	0.00	0.00	0.00	0.00
47	0.00	0.00	0.00	0.00	0.00
48	0.00	0.00	0.00	0.00	0.00
49	0.00	0.00	0.00	0.00	0.00
50	0.00	0.00	0.00	0.00	0.00
51	0.00	0.00	0.00	0.00	0.00
52	0.00	0.00	0.00	0.00	0.00
53	0.00	0.00	0.00	0.00	0.00
54	0.00	0.00	0.00	0.00	0.00
55	0.00	0.00	0.00	0.00	0.00
56	0.00	0.00	0.00	0.00	0.00
57	0.00	0.00	0.00	0.00	0.00
58	0.00	0.00	0.00	0.00	0.00
59	0.00	0.00	0.00	0.00	0.00
60	0.00	0.00	0.00	0.00	0.00
61	0.00	0.00	0.00	0.00	0.00
62	0.00	0.00	0.00	0.00	0.00
63	0.00</				

 $\cdot = S = R||$

	C	A	*	B	D
1	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00
32	0.00	0.00	0.00	0.00	0.00
33	0.00	0.00	0.00	0.00	0.00
34	0.00	0.00	0.00	0.00	0.00
35	0.00	0.00	0.00	0.00	0.00
36	0.00	0.00	0.00	0.00	0.00
37	0.00	0.00	0.00	0.00	0.00
38	0.00	0.00	0.00	0.00	0.00
39	0.00	0.00	0.00	0.00	0.00
40	0.00	0.00	0.00	0.00	0.00
41	0.00	0.00	0.00	0.00	0.00
42	0.00	0.00	0.00	0.00	0.00
43	0.00	0.00	0.00	0.00	0.00
44	0.00	0.00	0.00	0.00	0.00
45	0.00	0.00	0.00	0.00	0.00
46	0.00	0.00	0.00	0.00	0.00
47	0.00	0.00	0.00	0.00	0.00
48	0.00	0.00	0.00	0.00	0.00
49	0.00	0.00	0.00	0.00	0.00
50	0.00	0.00	0.00	0.00	0.00
51	0.00	0.00	0.00	0.00	0.00
52	0.00	0.00	0.00	0.00	0.00
53	0.00	0.00	0.00	0.00	0.00
54	0.00	0.00	0.00	0.00	0.00
55	0.00	0.00	0.00	0.00	0.00
56	0.00	0.00	0.00	0.00	0.00
57	0.00	0.00	0.00	0.00	0.00
58	0.00	0.00	0.00	0.00	0.00
59	0.00	0.00	0.00	0.00	0.00
60	0.00	0.00	0.00	0.00	0.00
61	0.00	0.00	0.00	0.00	0.00
62	0.00	0.00	0.00	0.00	0.00
63	0.00</				

[illegible]

\$\$

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ; 0&+B&D&)/A&B+E?++ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 , * + 7 # ' # 8 f G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D & 0 ' < * ? + K / * * ; ? ; 3 l

!"#\$%&'"()#*&+(*,-./*\$0&12\$\$"0"%

```
!"#$%&'()*+,-./:;<=>?@ABCD EFGHIJKL MNOPQRSTUVWXYZ
```

|>2@'-D>CW>|>@C-000E04'F*!4CB@C44!@CB'|>C2'04GDC FHFBI'W>H>2I|

+/681, j'4%"1&+716%'68K'4%"1&+ (871# '48378""+783

L > L4 ! ' L > - -

;=S=RR

> G 4 B D

;=S=RM

> G 4 * D

;=S=RS

> / G 4 * B D

;=S=M<

> / G B D

; S = M ;

> G 4 B D

;=S=MN

> / G 4 * B D

; $\equiv S=MT$

> / G 4 * B D

;=S=MP

> G 4 *

;=S=MU

> / G 4 * B D

;=S=MS

> G 4 * B D

;=S=S;

> G 4 * B D

;=S=SN

> G 4 * B

$\vdash S = ST$

> G 4 B D

:=S=SR

> / G 2 4 * B

;=S=SM

> 4 B D

; = S = SS

$$4 * B D$$

```
%109:33;
```

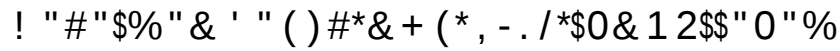
[illegible]

! "#\$!#\$!""

%&'()*+,-./:0123456789:;<=>?@!""

M!

@/3A<&B*('<=8+1&+!'#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?+()*+, -./01/2/3)45/6+0' /-50,'*
7#'#8FG:0&&H'1;+41;D;=F>;1: *3;+I;=B1<+J=<D00'<?+K/**;?;3!



|>2@'-D>CW>!>'@C-000E04'F*!4CB@C44!@CB'>C2'04GDC FHFBI'W>H>2I|

L > L4 ! ' L > - -

$$> / 4 * B D$$
$$\frac{4}{5} \times B \times D$$

> / G 4 B

/ G 4 * B D

$$G^2 \geq B$$

> 4 * B D

> / G 4 * B D

> 4 B D

$$G^*B$$

4 * B D

$\succ$ G * B D

G * B

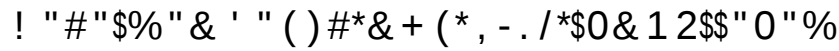
B D

 $\succ$

G 2

 $\succ$ [illegible] M''

@/3A<)B+('<8*1x+! "#\$%#& ' + / - ^ C ; 0&+B&D&)/A&B+E?+ () + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 ; * + 7 # ' # 8 F G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < J = < D 0 ' < ? + K / ** ; ? ; 3 L



G>>! 9 4H'4C B@C44!@C B'GFHH4B4'L4!@C>2 E'!>CC@

L > L4 ! ' L > - -

> 4

G 4 B D

$$4 \times B \times D$$
$$> / 4 *$$
$$2 \quad 4 \quad *$$

;=SMN=

$$G \rightarrow B$$
$$:= \text{SMN};$$

B

$$:= \text{SMNT}$$
 $\geq \quad / \quad G$
$$:= \text{SMNU}$$

G 4 * B D

 $\gamma = \text{SMNR}$ $\geq \frac{1}{4} * D$ $\cdot = \text{SMT} \leq$ $\geq \quad / \quad G \quad 4 \quad * \quad B \quad D$

-SMT-

✓ / D

• -CMT•

— / — 6 4 *

1-CMTT

— / — 6 3 4 *

L-CMTM

7. Schritt

CMTC

1. 0119

041000000

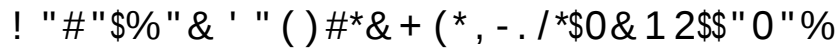
! "#\$%&'()*+,-./:;?@

%&'()*+,-./0*1+2&3&'*&0+4+5&61+7&80&&9:;3<=;*</=++>;?;\$!"

MP

@/3A<)&B+('=>+1&+! "#\$%#& ' +! /- :C;0&+B&D&)/A&B+E?++()*, -. /01/2/3)45/6+0' /- 50,*+

7#'#8FG;0&&H'1;+41;D;=F+>;1;*'3;;+I;=B1+J=<D&0'<?+K/**;?;3|



G>>! 9 4H'4C B@C44!@C B'GFHH4B4'L4!@C>2 E'!>CC@

L > L4 ! ' L > - -

4

$$A \geq B$$

> / 4 B D

$$G \rightarrow B \rightarrow D$$
$$\gamma \quad / \quad B$$

> / G 4 * D

> 4 B D

> 4 B D

> / G 4 * B D

γ G * D

$$\geq \frac{1}{2} \frac{1}{G} \frac{1}{D}$$

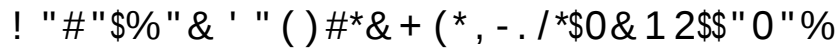
B D

> / G 4 * B D

$$x \geq 4$$
$$\frac{1}{4} \times 100 = 25\%$$
 $\frac{G}{B} \approx \frac{D}{C}$ [illegible]

MQ

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ; 0&+B&D&)/A&B+E?++ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 ' , * + 7 # ' # 8 F G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D & 0 ' < * ? + K / * * ; ? ; 3 l

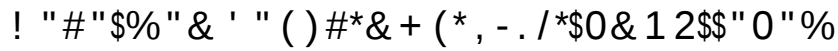


```
*424!>H'@C-0@0E04'F*-G@4CG4!>C2'04GDCFHFB I'9FFW>CCE!'
>CB>9>H@
```

L > L4 ! ' L > - -

$$\geq \quad / \quad G \quad 4 \quad * \quad B \quad D$$
[illegible]

@/3A<&B*('<=8+1&+!'#\$%#&'+'/-.*C;0&&B&D&)/A&B+E?+()*+, -./01/2/3)45/6+0' /-50,'*
7#'#8FG:0&&H'1;+41;D;=F>;1: *3;+I;=B1<+J=<D00'<?+K/**;?;3!



```
@H>D@>'GFHH4B4'F*''4CB@C44!@CB'>C2''04GDC FHFBI'9EH>AFF!'
9FFA>00ELEYD>
```

L > L4 ! ' L > - -

> / 2 4 B D

$$\frac{2}{4} \cdot B \cdot D$$
$$\frac{1}{2} \quad \frac{1}{4} \quad \frac{1}{8} \quad \frac{1}{16}$$
$$\frac{2}{4} \cdot \frac{1}{2} = \frac{1}{4}$$

> G 2 4 * B D

> / G 2 4 B D

> / G 2 4 B D

::<TS;

> / B D

B

> G B

> G 4 * B D

> / 4 B D

> * B D

B D

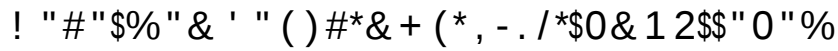
B D

> / G 4 B D

[illegible]

%&'()*+,-./012&3&'*0+45&61+7&80&&9:;3<=;*</=++>;?*\$!""

@/3A< &B+('=<+*1&+! "#\$%#& ' + / - * C ; 0&+B&D&)/A&B+E?++ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 , * + 7 # ' # 8 F G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > , 1 ; * 3 ; + I ; = B 1 < + J = < D 0 0 ' < ? + K / * * ; ? ; 3 l



```

@H>D@>'GFHH4B4'F*'4CB@C44!@CB'>C2''04GD CFHFBI'9EH>AFF!'
9FFA>00ELEYD>

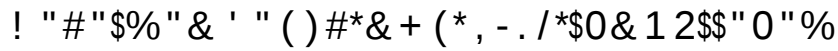
```

L > L4 ! ' L > - -

> / G 4 * B D

[illegible]

@/3A< &B+('=<8+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()*)+,-./01/2/3)45/6+0'/-50;+ 7#'#8fG;0&&H'1;+41;D;=F+>;1;+3;+I;=B1<+J=<D&0'<+?+K/**;?;3l
--



```

@H>D@>'GFHH4B4'F*'4CB@C44!@CB'>C2''04GDC FHFBI'9EH>AFF!'
9FFA>00ELEYD>

```

L > L4 ! ' L > - -

> / G 4 B D

> B D

> / G 4 * B D

> D

> B D

> / G 4 B D

$$\frac{>}{4} * B D$$

> 4 B D

D

$$2 * B D$$

B D

> G 2 4 * B D

$$> 2$$

2 *

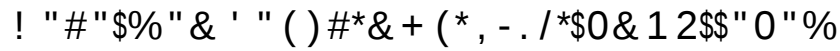
G

G

[illegible]

NP

@/3A<)&B+('<=8+*1&+!"#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?++()*+,.-/01/2/3)45/6+0'/-50;*+7#'#8fG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3l
--



9 > !' / > - 4H@E - 'GD !@ - 0@ > C' GFHH4B4' F *' 4C B@C44 !@C B' > C 2' 04GDC FHFBI' |
L44 ! 9 > 24

:=MP<;

$\therefore MP < T$

$\gamma \equiv MP < P$

$\vdash MP < R$

$\vdash MP < M$

$\vdash MP < S$

;=MP=<

;=MP=

;=MP=N

;=MP=U

; $\equiv$ MP=R

;=MP=S

; $\equiv$ MP; $<$

:=MP::

$$\underline{; \equiv MP ; U}$$
$$\underline{; \equiv \text{MP} ; R}$$

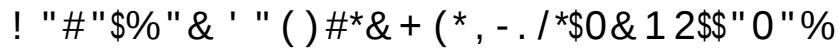
%109:33;

! "#\$!#\$!""

%&'()*+,-./:012&3456789:;=<,*</=>?@\$!""

00

@/3A<&B*('<=8+1&+!'#\$%#&'+'/-.*C;0&&B&D&)/A&B+E?+()*+, -./01/2/3)45/6+0' /-50,'*
7#'#8FG;0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3!



```
9>!'/>-4H@E-'GD!@-00>C'GFHH4B4'F*!4CB@C44!@CB'>C2'04GDC FHFBI'|
L44!9>24
```

L > L4 ! ' L > - -

;=MP;S

;=MPN=

;=MPNT

$\mathcal{P} = \text{MPNP}$

;=MPNS

; $\equiv$ MPT<

:=MPT=

:=MPT;

;=MPTN

;=MPTP

;=MPTM

; $\equiv$ MPTS

; :=MPP=

;=MPP;

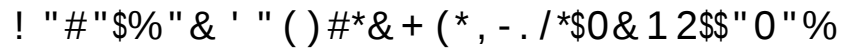
;=MPPN

%109:33;

[illegible]

OR

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



```
9>!'/>-4H@E-'GD!@-00>C'GFHH4B4'F*!4CB@C44!@CB'>C2'04GDC FHFBI'|
L44!9>24
```

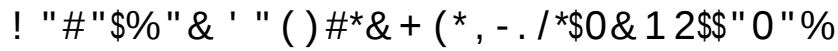
7+681, J' 4% "1 & 716% '68K' 4% "1 & (871# '48378" " +783

> G 2 4 * B D

$$2 \times B$$
$$G \rightarrow B$$
[illegible]

OS

@/3A<)&B+('=<+8*1&+! "#\$%#& ' +! /- *C;0&&B&D&)/A&B+E?+(() *+, -. /01/2/3)45/6+0' /- 50; *+ 7# ' #8fG;0&&H'1;+41;D;=f+>;1;*3;+I;=B1<+J=<D&0'<*?+K/**;;?;3l
--



9 E ->H@> ! 'G FHH4B4' F *'4C B@C44! @CB'> C 2'04GDC FHF BI'WE 9 />YD>'

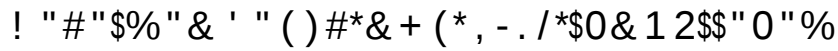
/+681, J'4%"1&+716%'68K'4%"1&+(871#'48378""+783

```
;;<=TU0S<RQ      ;;<=PR0RNPQ      ;;<=PM0MPMQ      ;;<=MR0M=;Q
;;<=S=0RRMQ       ;;<=S;0RURQ       ;;<=SP0RRSQ       ;;<=SS0SU;Q
;;<;<<0M<SQ       ;;<;<;<N0SP<Q     ;;<;<;<T0RSNQ     ;;<;<;<P0MTUQ
```

[illegible]

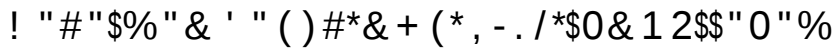
P!

7#'#8FG;0&&H'1;+41;D;=f+>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3L



```
9 E ->H@>!'GFHH4B4'F*!4CB@C44!@CB'>C2'04GDC FHFBI'WE 9 />YD>'  
L>0D>C>9 0D@00>
```

@/3A<&B*('<=8+1&+!'#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?+()*+, -./01/2/3)45/6+0' /-50,'*
7#'#8FG:0&&H'1;+41;D;=F>;1:*3;+I;=B1<+J=<D00'<?+K/**;?;3!



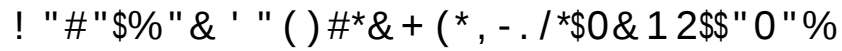
```
9 E ->H@>!'GFHH4B4'F*'4CB@C44!@CB'>C2'04GDC FHFBI'WE9 />YD>'
L>0D>C>90D@00>
```

L > L4 ! ' L > - -

TTS=HS		TTS=HS		TTS=HS	
C	A	*	B	D	
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9
10	10	10	10	10	10
11	11	11	11	11	11
12	12	12	12	12	12
13	13	13	13	13	13
14	14	14	14	14	14
15	15	15	15	15	15
16	16	16	16	16	16
17	17	17	17	17	17
18	18	18	18	18	18
19	19	19	19	19	19
20	20	20	20	20	20
21	21	21	21	21	21
22	22	22	22	22	22
23	23	23	23	23	23
24	24	24	24	24	24
25	25	25	25	25	25
26	26	26	26	26	26
27	27	27	27	27	27
28	28	28	28	28	28
29	29	29	29	29	29
30	30	30	30	30	30
31	31	31	31	31	31
32	32	32	32	32	32
33	33	33	33	33	33
34	34	34	34	34	34
35	35	35	35	35	35
36	36	36	36	36	36
37	37	37	37	37	37
38	38	38	38	38	38
39	39	39	39	39	39
40	40	40	40	40	40
41	41	41	41	41	41
42	42	42	42	42	42
43	43	43	43	43	43
44	44	44	44	44	44
45	45	45	45	45	45
46	46	46	46	46	46
47	47	47	47	47	47
48	48	48	48	48	48
49	49	49	49	49	49
50	50	50	50	50	50
51	51	51	51	51	51
52	52	52	52	52	52
53	53	53	53	53	53
54	54	54	54	54	54
55	55	55	55	55	55
56	56	56	56	56	56
57	57	57	57	57	57
58	58	58	58	58	58
59	59	59	59	59	59
60	60	60	60	60	60
61	61	61	61	61	61
62	62	62	62	62	62
63	63	63	63	63	63
64	64	64	64	64	64
65	65	65	65	65	65
66	66	66	66	66	66
67	67	67	67	67	67
68	68	68	68	68	68
69	69	69	69	69	69
70	70	70	70	70	70
71	71	71	71	71	71
72	72	72	72	72	72
73	73	73	73	73	73
74	74	74	74</		

[illegible]

7#'#8FG;0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D&0'<?*+K/**;?;3L



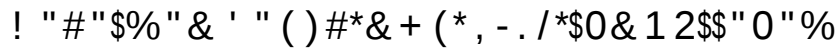
```
9 E ->H@>!'GFHH4B4'F*!4CB@C44!@CB'>C2'04GDC FHFBI'WE9 />YD>'
L>0D>C>90D@00>
```

L>L4!'L>- -

4

[illegible]

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



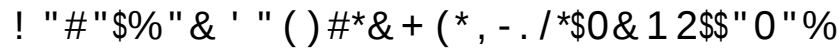
-G9-!-GDFFH!F*!4CBB!Z!04GDCFHFB!W>!EWE00I

-494-04! 'L>--

00000000000000000000000000 (<="

7)6+.)33/.0)*0#\$\$- 5 :6 -+ :)6;

@/3A<|&B*('=>+1&+! "#\$%#& ' + / - * C ; 0&+B&D&)/A&B+E?+()) * , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 ' ; +
7 # ' # 8 F G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D 0 ' < ? + K / ** ; ? ; 3 l



- G 9 - ' - G D F F H ' F * ' 4 C B B V ' Z ' 0 4 G D C F H F B I ' W > ! E W E 0 0 I

L > L4 ! ' L > - -

$$\frac{1}{2} \cdot B \cdot D$$

> / * B D

> / G 4 * B D

 $\geq \frac{2}{4} * B D$
$$\frac{2}{4} \cdot B \cdot D$$
$$\frac{2}{4} \cdot \frac{4}{2} = 1$$
$$\geq \frac{4}{3} \cdot B \cdot D$$
$$\frac{2}{4} \cdot \frac{4}{2} = 1$$
$$\frac{2}{B} \geq \frac{2}{D}$$

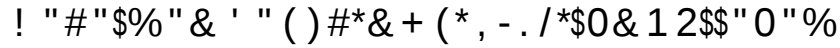
$>$ $/$ $*$ B D

> / G 4 * B D

$$\frac{2}{4} \cdot \frac{4}{2} = 1$$
$$\frac{2}{4} \cdot \frac{4}{2} = 1$$
$$\frac{2}{4} \cdot \frac{1}{2} = \frac{1}{4}$$
$$\frac{2}{4} \times B \times D$$
$$\frac{2}{B} > D$$
[illegible]

P0

@/3A<&B+('<=8*1&+! "#\$%#& '+!/-*C;0&+B&D&)/A&B+E?++()'+, -. /01/2/3)45/6+0' /- 50,'+ 7# '#8fG;0&&H'1;+41;D;=F+> ;1; *3 ;+I ;=B1<+J=D&0'<?+K/**;?;3l
--



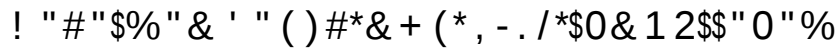
- G 9 - ' - G D F F H ' F * ' 4 C B B V ' Z ' 0 4 G D C F H F B I ' W > ! E W E 0 0 I

L > L4 ! ' L > - -

G 4

[illegible]

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()*,,-./01/2/3)45/6+0'/-50',*+
7#'#8F<0&&H'1;+41;D;=+>;1;*3;+I;=B1<J=C=D0&0'<?+K/**;?;3l



- G 9 - ' - G D F F H ' F * ' 4 C B B V ' Z ' 0 4 G D C F H F B I ' W > ! E W E 0 0 I

L > L4 ! ' L > - -

/

/

*

G

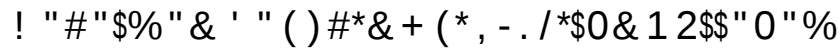
>

G

[illegible]

PQ

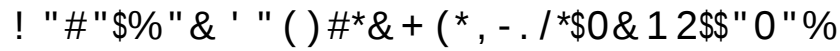
@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ; 0&+B&D&)/A&B+E?++ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 , * + 7 # ' # 8 f G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D & 0 ' < * ? + K / * * ; ? ; 3 l



```
- !44!C>!>I>C>'BE!EWEH>9'GFHH4B4'F*!4CB@C44!@CB'WFH4CGD4!!I
```

-494-04! 'L>--

@/3A<&B*('<=8+1&! "#\$%#&' +/ -.*C;0&&B&D&)/A&B+E?+()*+, -. /01/2/3)45/6+0' /- 50;'+
7# ' #8F'G;0&&H'1;+41;D;=F>;1;.*3;+I;=B1<+J=<D0'<'?+K/**;?;3|



```
->@C0B@0-'GFHH4B4'F*!4CB@C44!@CB'L>0D>9E00F9'W09
```

L > L4 ! ' L > - -

> / G 4 * B D

> / G 4 * B D

$$G \times B \rightarrow D$$

> / G 4 * B D

> / G 4 * B

$\geq \quad * \quad B$

> G 4 * B D

$$G \quad \quad \quad *$$
$$G \times B \rightarrow D$$

> / G 4 B D

/

> G

/

4

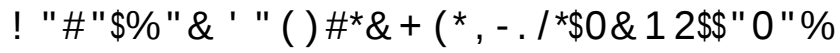
G

G

[illegible]

QN

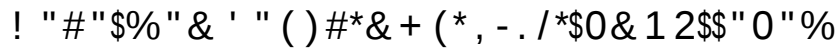
@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ; 0&+B&D&)/A&B+E?++ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 , * + 7 # ' # 8 f G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D & 0 ' < * ? + K / * * ; ? ; 3 l



```
->@C0B@0-'GFHH4B4'F*!4CB@C44!@CB'L>0D>9E00F9'W09
```

>

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ; 0&+B&D&)/A&B+E?++ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 , * + 7 # ' # 8 f G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D & 0 ' < * ? + K / * * ; ? ; 3 l

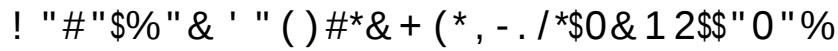


/+681, J'4%"1&+716%'68K'4%"1&+(871#'48378""+783

=MM;;0STSQ	=MM;T0MUTQ	=MM;P0USPQ	=MM;U0M<<Q
=MMN<0RPPQ	=MMNT0M<;Q	=MMNU0R;;Q	=MMNR0RSTQ
=MMNS0RNNQ	=MMT<0R=NQ	=MMT;0MMTQ	=MMTT0SR;Q
=MMTP0RT=Q	=MMTM0M=NQ	=MMP;0MTTQ	=MMPP0M=NQ
=MMPU0MNUQ	=MMU<0RUSQ	=MMU=0M=MQ	=MMUN0RR;Q
=MMUM0S<SQ	=MMRU0MUSQ		

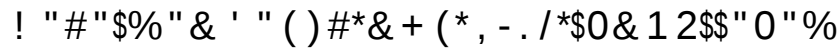
[illegible]

7#'#8FG;0&&H'1;+41;D;=f+>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3L



```
-0'?F-4LD-'GFHH4B4'F*!4CB@C44!@CB'>C2'04GDC FHFBI'
GDFFC2>GD4!!I'L>H>
```

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?+()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



```

-0'?F-4LD-'GFHH4B4'F*'4CB@C44!@CB'>C2'04GDC FHFBI'
GDFFC2>GD4!!I'L>H>

```

L > L4 ! ' L > - -

$$\frac{G}{2} \geq B$$
$$> / 4 * B D$$
$$> \quad / \quad G \quad 2 \quad * \quad B \quad D$$
$$G \times B \rightarrow D$$

> / G 4 * B D

> / G 2 4 * D

> / G 4 * B D

$$G \rightarrow B$$
$$G \rightarrow B \rightarrow D$$
$$\frac{G}{B} > \frac{D}{G}$$

> G 4 * B D

$$\frac{G}{B} > \frac{D}{B}$$

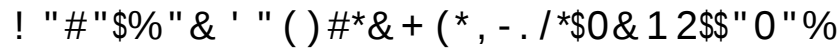
> / G 4 * B D

4 B D

$$G \rightarrow B \rightarrow D$$
$$G \rightarrow B \rightarrow D$$
[illegible]

QR

@/3A<)&B+('<=8*1&+!"#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?++()*, -./01/2/3)45/6+0' /-50;*+ 7#'#8fG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<J=<D&0'<*?+K/**;?;3L
--



A@- X >? I F 0 @ ' G F H H 4 B 4 ' F * ' 4 C B B \ Z 0 4 G D C F H F B I ' A > Y D > W E H > 9

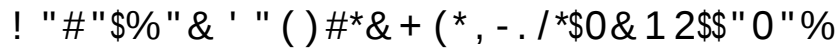
-494-04! 'L> - -

;;==N;0MPTQ	;;==NP0S=PQ	;;==NU0MRMQ	;;==NR0M=<Q
;;==NM0SN<Q	;;==NS0MUPQ	;;==T<0R;NQ	;;==T=0RRSQ
;;==T;0MR<Q	;;==TN0RP<Q	;;==TT0RMSQ	;;==TP0S=PQ
;;==TU0RMUQ	;;==P<0MTRQ	;;==P=0RR<Q	;;==P;0MSRQ
;;==PP0SNTQ	;;==PU0S=NQ	;;==PR0M;RQ	;;==PM0RUMQ
;;==PS0S;RQ	;;==U=0SNRQ	;;==U;0RMPQ	;;==UN0MRSQ
;;==UT0M<;Q	;;==UU0MR=Q	;;==US0MM=Q	;;==R<0M;TQ
;;==R=0M=SQ	;;==RN0M;SQ	;;==RT0=<<UQ	;;==RP0M;UQ
;;==RU0M;PQ	;;==RR0SNTQ	;;==RS0RN=Q	;;==M<0MU<Q
;;==M=0SMRQ	;;==M;0RPTQ	;;==MN0RMUQ	;;==MT0RUMQ
;;==MU0MPMQ	;;==MS0MSMQ		

[illegible]

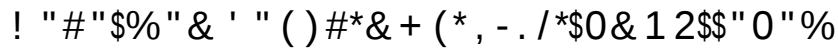
R!

@/3A<)&B('(<=8*1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?++()'+,-./01/2/3)45/6+0'/-50;'+7#'#8FG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D&0'<'?+K/'**;;?;3l



A@- X>?IF0@'GFHH4B4'F* '4CBB\Z04GDC FHFBI'A>YD>WEH>9

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?++()*,,-./01/2/3)45/6+0' /-50;'+
7#'#8F&0&&H'1;+41;D;=F+>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



A@- X>?IF0@'GFHH4B4'F*'4CBB\Z04GDC FHFBI'A>YD>WEH>9

L > L4 ! ' L > - -

G

> G

G

G

G

/ 4

4

 $\succ$

/

G 4

/ *

*

G

*

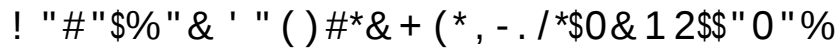
/ G

/ 2

[illegible]

R\$

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ; 0&+B&D&)/A&B+E?++ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 , * + 7 # ' # 8 f G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D & 0 ' < * ? + K / * * ; ? ; 3 l



```

-!44'C>!>I>C>'9>CB>H>9'@C-000E04'F*-G@4CG4'>C2'04GDC FHFBI'
CF!0D'L>!E!

```

L > L4 ! ' L > - -

;=SSMT

> / G 4 * B D

;=SSMP

G * B

;=SSMU

> / G 4 * B D

;=SSMM

> G 4 * B

;=SSMS

> / G 2 4 * B

;=SSS=

> / G 2 4 * B

$$\underline{;=SSS;}$$

> / G 4 * B D

;=SSSN

> / G 4 * B D

;=SSST

$\succ$ $*$ B D

;=SSSP

4 B D

;=SSSU

/ 2 4 * B D

;=SSSR

> / G 4 * B D

;=SSSS

> / G 4 * B D

;; <<< ;

> / G 4 * B D

$$\underline{:: < < < T}$$

> 4 B D

;; <<< U

> / G 4 * B D

```
%109:33;
```

```
00000000000000000000000000000000 ( <="
```

7)6+.)33/.0)*0#\$-5:6-+:)6;

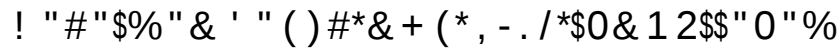
! "#\$%&'()*+,-./:;?@

%&'()*+,-./:012&3456789:;<=>?@!""

R0

@/ 3A<)&B+(' <=8+*1&+! "#\$%#& ' +'/-.*C;0&+B&D&)/A&B+E?++()*+, -. /01/2/3)45/6+0 ' /- 50;*+

7#'#8fG;0&&H'1;+41;D;=f+>;1;.*3;+I;=B1<+J=<D&0'<^?+K/**;?;3L



```

-!44'C>!>I>C>'9>CB>H>9'0C-000E04'F*-G04CG4'>C2'04GDC FHFBI'
CF!0D'L>!E!

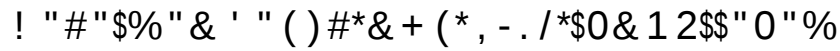
```

L > L4 ! ' L > - -

> / G 4 * B D

[illegible]

@/3A<&B*('<=8+1&+!'#\$%#&'+'/-.*C;0&&B&D&)/A&B+E?+()*+, -./01/2/3)45/6+0' /-50,'*
7#'#8FG:0&&H'1;+41;D;=F>;1: *3;+I;=B1<+J=<D00'<?+K/**;?;3!



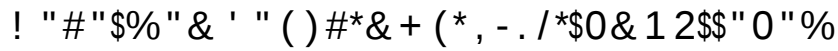
```
-!44'C>!>I>C>'9>CB>H>9'@C-000E04'F*'-G@4CG4'>C2'04GDC FHFBI'
CF!0D'L>!E!
```

L > L4 ! ' L > - -

G

[illegible]

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?++()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3l



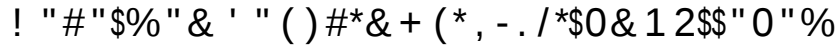
-@FE0DF0-'ABCC4D4'B*'4EDFE44!FED'K@0?@9>00B9'W09

-494-04!'K@--

;;LP==NP<PQ	;;LP=;NOT;Q	;;LP=MNOR<Q	;;LP=RNPRSQ
;;LP;TNRSSQ	;;LP;RNOT;Q	;;LP;PNOR=Q	;;LPL<NPT<Q
;;LPL=NP<SQ	;;LPLLNO;RQ	;;LPLMNRL<Q	;;LPLRNO<;Q
;;LPLONOM<Q	;;LPT<NOS<Q	;;LPT=NO<SQ	;;LPTLNOO=Q
;;LPTMNO=MQ	;;LPTPNRPPQ	;;LPS<NOLTQ	;;LPS;NMPSQ
;;LPSSNOPSQ	;;LPSRN=<TQ	;;LPSONPL;Q	;;LPM<NOMRQ
;;LPM;NRLLQ	;;LPMTNPLSQ	;;LPMMNRO;Q	;;LPMRNPTRQ
;;LPMONPMPQ	;;LPMPNROPQ	;;LPR;NOPLQ	;;LPRSNOPMQ

[illegible]

@/3A<)&B*('=>+1&+! "#\$%#&' +/ -.*C;0&+B&D&)/A&B+E?+() *+, -. /01/2/3)45/6+0' /-50;'+
7# ' '#8FG;0&&H'1;+41;D;=F>;1; *3;+I;=B1<+J=<D&0'<?+K/**;?;3!



-@FE0DF0-'ABCC4D4'B*!4E DFE44!FED'K@0?@9>00B9'W09

K@K4!'K@---

@ / A 2 * D ?

@ 2 * D ?

* D

2 *

* D ?

$$::LP:L$$
 $;;LP;S$

@ * D ?

::LP:0

* D ?

• • | DI | •

LPL

@ / 2 4 * D ?

;;LPLT

?

[illegible]

;;LPLP

@ ?

```
;;LPT;
```

Ⓜ / A 1 * D 2

© 1997 L. B. P. T. T.

;;LPII

@ *

::LPTS

NAME

@ / A 2 * D 3

@ 7

;;LPTR

@ / A 2 * D ?

• • | PTO

② / A * D 2

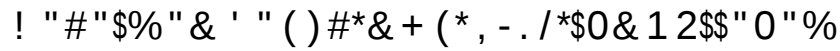
```
@ 7
%109:33;
```

[illegible]

%&'()*+,-./012&3&'*0+45&61+7&80&&9:;3<=;*</=++>;?*\$!""

"Q

7#'#8FG;0&&H'1;+41;D;=F>;1;^3;+I;=B1<+J=<D&0'<^?+K/**;?;3L



```
-----@FE0DF0-'ABCC4D4'B*!4EDFE44!FED'K@0?@9>00B9'W09-----
```

K@K4 ! 'K@ - -

A * D ?

@

@ A 2 * D ?

@ * D ?

*

@ A 2 4 * D ?

*

@ / 2 4 * D ?

@ A 2 4 * D ?

@ / 4 * D ?

@ / 2 4 * D ?

@ A 4 * D ?

@ 4 * D

/

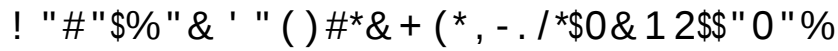
/

2

```
000000000000000000000000 (<="
7)6+.)33/.0)*0#$-5:6-+:)6;
```

"R

@/3A<)&B+('<=8*1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?++()*, -./01/2/3)45/6+0' /-50;*+ 7#'#8fG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<J=<D&0'<*?+K/*;*;?;3l
--

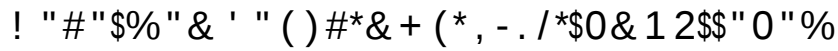


/+681, H'@II%7"J'4%"1&+(871#'68J'F8#&+\$."8&6&7(8

;;LTR;NOM=Q	;;LTRLNOTSQ	;;LTRONOPRQ	;;LT0<NOR=Q
;;LTOTNO<<Q	;;LTOSNO;SQ	;;LTORNO=RQ	;;LT0ONOMRQ
;;LTOPNOLLQ	;;LTP<NRPSQ	;;LTP;NPSLQ	;;LS<;NRRMQ
;;LS<LNOTMQ	;;LS<MNPO<Q	;;LS==NOSMQ	;;LS=SNRR0Q

[illegible]

7#'#8FG;0&&H'1;+41;D;=f+>;1;*3;+I;=B1<+J=<D&0'<?+K/**;?;3L



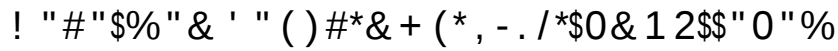
```
ECG SEG'B?CC4>4'?'*''4D>ED44!ED>'GD 2''04BSD?C?>U'9 HCG@???'
9??@G00HFHWSG
```

- 4 9 4 - 0 4 ! ' F G - -

;;Q=JNKPLM	;;Q=JQK=LM	;;Q=JRKPNJM	;;Q=JPKONJM
;;Q=JOKPQ<M	;;Q=Q<KLOQM	;;Q=Q=KPJJM	;;Q=QOKRQOM
;;Q=R<KPRNM	;;Q=RJKPJPM	;;Q=RQKPQNM	;;Q=RLKP<<M
;;Q=ROKRQLM	;;Q=LRKPP;M	;;Q=LLKPRQM	;;Q=LOKP<NM
;;Q=P=KLOJM	;;Q=P;KPJRM	;;Q=PNKPNQM	;;Q=PQKLJNM
;;Q=PPKO<=M	;;Q=OKPPPM	;;Q=ORKP=NM	;;Q=OPKPPJM
;;Q=OOKL;RM	;;Q;<<KLLLLM		

[illegible]

@/3A<|&B*('=8+*1&+! "#\$%#& ' +! /- *C;0&+B&D&)/A&B+E?+*() +*, -. /01/2/3)45/6+0 ' /- 50; +*
7# ' # 8FG;0&&H'1;+41;D;=F+> ;1; *3 ;+I ;=B1<+J =<D&0'<?*+K/++;? ;3L



V 9 4 G' 4 D > E D 4 4 ! E D > A' B ? C C 4 > 4' 4 2 G 0 S G C G' G C H @ G

FGF4 ! 'FG - -

$$/ \quad * \quad > \quad S$$

G S

$$* \quad \triangleright \quad S$$
$$G \quad / \quad * \quad > \quad S$$
$$; ; 0N < L$$
$$G \quad / \quad B \quad 2 \quad * \quad > \quad S$$

∴ QN ==

$$G \quad / \quad * \quad >$$

$\therefore QN = N$

$$G \quad / \quad 2 \quad * \quad >$$

$\therefore QN = J$

$$G \quad / \quad B \quad * \quad > \quad S$$

$\therefore QN=Q$

$$G \quad / \quad 2 \quad 4 \quad * \quad > \quad S$$
$$\therefore \underline{QN=R}$$
$$/ \quad B \quad * \quad > \quad S$$
$$; ; QN=L$$
$$G \quad / \quad B \quad 2 \quad * \quad > \quad S$$
$$; ; QN=P$$
$$G \quad / \quad B \quad * \quad > \quad S$$

```
;;ON=0
```

$$/ \quad B \quad 2 \quad 4 \quad * \quad > \quad S$$

::ON:<

$$/ \quad * \quad > \quad S$$
$$:: \text{ON} ::=$$

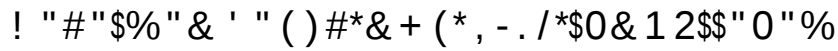
* >

• • ON • •

$$/ \quad * \quad \geq \quad S$$
[illegible]

%&'()*+,-./012&3&'*0+45&61+7&80&&9:;3<=;*</=++>;?*\$!""

@/3A<|&B+(' <=8+*1&+! "#\$%#& ' +'/-.*C;0&+B&D&)/A&B+E?++() *+, -. /01/2/3)45/6+0' /-50;'+
7# ' #8fG;0&&H'1;+41;D;=F+> ;1; *3 ;+I ;=B1<+J=<D&0'<?+K/**;?;3!



V 9 4 G' 4 D > E D 4 4 ! E D > A' B ? C C 4 > 4' 4 2 G 0 S G C G' G C H @ G

FGF4 ! 'FG - -

$$G \quad / \quad * \quad > \quad S$$

/ * >

$$G \quad / \quad >$$

S

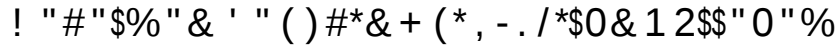
$$/ > S$$
$$G \quad / \quad 2 \quad 4 \quad * \quad > \quad S$$
$$/ \quad * \quad > \quad S$$
$$G / 4 * > S$$

/ >

$$G \quad / \quad B \quad * \quad > \quad S$$
$$G \quad / \quad B \quad 4 \quad * \quad > \quad S$$
$$G \quad / \quad B \quad 2 \quad * \quad > \quad S$$
$$G > S$$
$$G \quad / \quad B \quad * \quad > \quad S$$
[illegible]

\$!

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ;0&+B&D&)/A&B+E?++ () * + , - . /01/2/3)45/6+0 ' /- 50 ; * + 7 # ' # 8fG ;0&&H ' 1 ;+41 ;D ;=F+ > ;1 ; * 3 ;+I ;=B1<+J =<D&0 ' < * ?+K / * * ; ? ; 3l



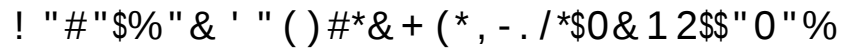
9 G0SG'B?CC4>4'?*!04BSD?C?>U'9 GDGVGFG 2U'D?!0S'FG!H!

- 4 9 4 - 0 4 ! ' F G - -

;; JQLJKL;LM	;; JQLOKOLL	;; JQP<KON;M	;; JQP=KP;JM
;; JQPQKL;OM	;; JQPRKLJQM	;; JQPLKPNOM	;; JQPPKLRQM
;; JQPOKLQ;M	;; JQO<KLQQM	;; JQO=KPJRM	;; JQOQKO<QM
;; JQOLKP=JM	;; JR<=K=<=<=M	;; JR<RK=<;QM	

[illegible]

@/3A<)&B+('=<8*1&+! "#\$%#& ' + /-^C;0&&B&D&)/A&B+E?++() ^+ , -./01/2/3)45/6+0' /- 50,*+ 7# #' #8FG;0&&H'1;+41;D;=F+> ;1;^3 ;+I ;=B1<+J=<D&0'<^?+K/^**;;?;3l
--



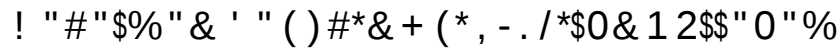
9 ? HD0'WE? D'B?CC4>4'? *'4D>ED44!ED>'VG 2 G 9 9 G DE00G

- 4 9 4 - 0 4 ! ' F G - -

%109:33;

[illegible]

@/3A<)\&B+('=<8*+1&+!"#\$%#&'+'/-^C;0&&B&D&)/A&B+E?+()*)+, -./01/2/3)45/6+0'/-50',*+7# #'8FG;0&&H'1;+41;D;=F>;1,*3;+I;=B1<+J=<D&0'<?+K/**;?;3l
--



424!>?'@A-0@0B04'C-D@4AD4!>A2'04DEAC?CFG'9CCH>AAB!'

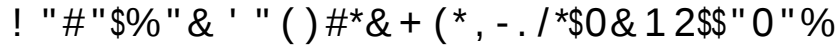
/+681,I'4%"1&+(871#'68J'@8#&+\$."8&6&7(8'48378""+783

;;L<=<MN;<0	;;L<<;MP;<0	;;L<<QMP<L0	;;L<<RMNQS0
;;L<<LMNNS0	;;L<<SMPT<0	;;L<=<MSS;0	;;L<=<TMSSQ0
;;L<=<RMP=P0	;;L<;<MPLN0	;;L<;;MNPQ0	;;L<;<QMN=R0
;;L<;RMNT;0	;;L<;LMNNP0	;;L<T=MNLTO	;;L<T;MNL<0
;;L<TTMP<Q0	;;L<TQMPSS0	;;L<TRMS;L0	;;L<TLMSQL0
;;L<TNMNPS0	;;L<Q<MSLP0	;;L<Q=MPQS0	;;L<QTMNQL0
;;L<QQMSRS0	;;L<QRMNR=0	;;L<QLMSRTO	;;L<QNMN=N0
;;L<QPM=<;<0	;;L<R=MPP<0	;;L<RTMPPT0	;;L<RQMSNQ0
;;L<L=MSLS0			

[illegible]

%&'()*+,-./:0*1+2&3&'*0+4+5&6+7&80&&+9:;3<=;*</=++>;?+\$!"

@/3A<)&B*('=>+1&+! "#\$%#&' +/ -.*C;0&+B&D&)/A&B+E?+() *+, -. /01/2/3)45/6+0' /-50,'*
7# ' #8FG;0&&H'1;+41;D;=F>;1; *3;+I;=B1<+J=<D&0'<?+K/**;?;3!



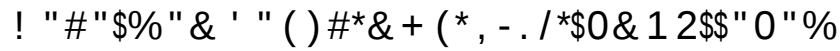
```
H 9 4>'4AF@A44!@AFU'DC??4F4'42>0E>?>'>?BV>
```

K>K4 ! 'K> - -

$$> 2 F$$
[illegible]

Q

@/3A< &B+(' <=8+*1&+! "#\$%#& ' + ' /- * C ; 0&+B&D&)/A&B+E?++ () * + , - . / 0 1 / 2 / 3) 4 5 / 6 + 0 ' / - 5 0 ' , * + 7 # ' # 8 f G ; 0 & & H ' 1 ; + 4 1 ; D ; = F + > ; 1 ; * 3 ; + I ; = B 1 < + J = < D & 0 ' < * ? + K / * * ; ? ; 3 l

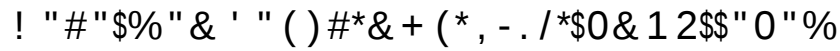


```
H 9 4>'4AF@A44!@AFU'DC??4F4'42>0E>?>'>?BV>
```

K>K4 ! 'K> - -

$$\frac{D^2}{2} \geq F$$
[illegible]

@/3A<|&B+('=>+1&+!"#\$%#&'+'/-*C;0&+B&D&)/A&B+E?++()'+,-./01/2/3)45/6+0'/-50;'+
7#'#8F&0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D00'<?+K/**;?;3l



9>0C>'GB??4F4'B*!04GCEB?BFA'9>E>H>J>2A'EB!0C'J>!V!

J>J4 ! ' J> - -

* F

*

* F

/ * F C

*

$$G \rightarrow C$$

* F

> / G 4 * F C

4 * F C

≥ *

/ * C

> / G 4 * C

$$G \quad * \quad C$$

> 4 * F C

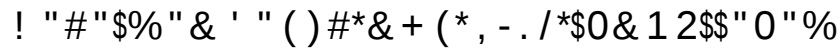
C

> / * F C

[illegible]

N

7#'#8FG;0&&H'1;+41;D;=F>;1;*3;+I;=B1<+J=<D&0'<?*+K/**;?;3L



```
9>0C>'GB??4F4'B*!04GCEB?BFA'9>E>H>J>2A'EB!0C'J>!V!
```

J>J4 ! 'J> - -

*

*

*

$$G_{24}^*$$

*

*

C

G

> / G 4 * F C

/ G 4 * F C

*

> / G 4 * F C

* F C

/ G 4 * F C

2

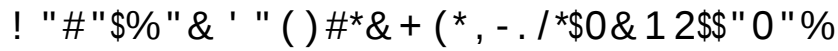
G *

2

[illegible]

P

@/3A<)&B+('<=8*1&+!"#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?++()*, -./01/2/3)45/6+0' /-50;*+ 7#'#8fG;0&&H'1;+41;D;=F+>;1;*3;+I;=B1<J=<D&0'<*?+K/**;?;3l
--



```

-!44!>?!?@?>?!9?>A?B?9'C>-0C0D04'E*'-FC4>F4'?>2'04FG>EBEA@'|
>E!0G'H?!D!

```

H?H4!'H? - -

? / F 4 * A G

? / F 2 4 * A

F

? F G

/ A

? / F G

? / F 2 4 * G

? / F G

? / F 4 A G

? / F 2 A G

? / 4

? / F 2 4 A G

? / F A G

? / F 2 4 * G

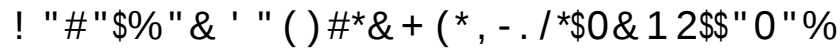
? / F 2 4 * A

/ F 4

[illegible]

M

@/3A<)&B+('=<8+1&+! "#\$%#& ' +! /- *C;0&&B&D&)/A&B+E?++() *+, -. /01/2/3)45/6+0' /- 50,*+ 7# ' #8fG;0&&H'1;+41;D;=f+>;1;*3;+I;=B1<+J=<D&0'<?*+K/**;?;3l



```
-!44'>?!?@?>?'9?>A?B?9'C>-0C0D04'E*'-FC4>F4'?>2'04FG>EBEA@'|
>E!0G'H? !D!
```

$\therefore K < Q =$

∴ K < Q;

∴ K < QS

$\therefore K < QP$

∴ K < 00

$\therefore K < QM$

∴ K < QK

M< ; 0R

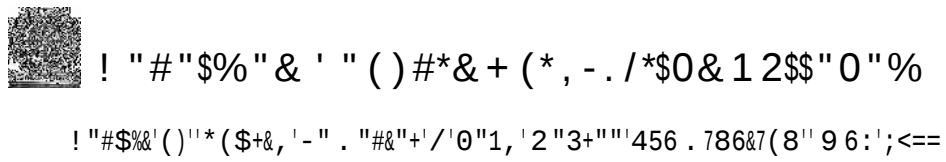
%109:33;

[illegible]

%&'()*+,-./:0123456789;<=>?@!#\$%'

N

@/3A<|&B*('=>+1&+! "#\$%#&' +/ -.*C;0&&B&D&)/A&B+E?+()*+, -. /01/2/3)45/6+0' / - 50,'*+
7# ' #8F&G0&&H'1;+41;D;=F+> ;1,*3 ;+I ;=B1<+J=<D00'<?+K/**;?; 3l

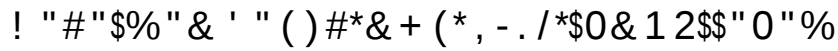


! "#\$%&'()*+,\$-". "#&'+/'0"1, '2"3+"""456.786&7(8""96:';<==

[illegible]

0

@/3A<|&B+('=>+1&+! "#\$%#&'+'/-.*C;0&+B&D&)/A&B+E?++() *+, -./01/2/3)45/6+0' /-50;'+
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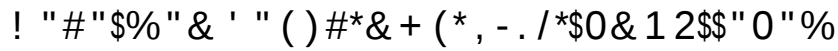
9 > ? @ 0 ' AB > @ ' C > DD4E4 ' > * 4 @ EB @ 44 ! B @ E ' FG 2 G 9 9 G @ B00 G

- 4 9 4 - 0 4 ! ' I G - -

%109:33;

!"#\$%&'()*+,-./0123456789:;<=>?@AB"CD

@/3A<)&B+('=<8*+1&+!"#\$%#&'+'/-*C;0&&B&D&)/A&B+E?++()'+,-./01/2/3)45/6+0' /-50'+*+7#+'#8FG;0&&H'1'+41;D;=F>;1;'3;+I;=B1<+J=<D&0'<?+K/**;?;3!

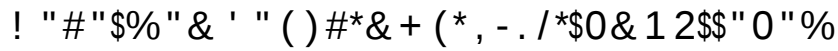


9 > ? @ 0 ' A B > @ ' C > D D 4 E 4 ' > * ' 4 @ E B @ 4 4 ! B @ E ' F G 2 G 9 9 G @ B 0 0 G

IGI4! 'IG - -

[illegible]

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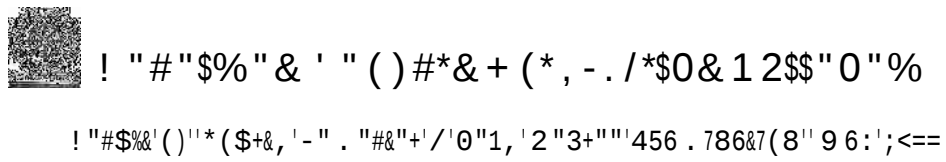


9 > ? @ 0 ' A B > @ ' C > D D 4 E 4 ' > * ' 4 @ E B @ 4 4 ! B @ E ' F G 2 G 9 9 G @ B 0 0 G

IGI4! 'IG - -

$$= \quad ; \quad 0 \quad N \quad P$$
[illegible]

@/3A<|&B*('(<=8*1&+!"#\$%#&'+'/-.*C;0&B&D&)/A&B+E?+()*+, -./01/2/3)45/6+0' /-50,'*
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[illegible][illegible]