

# Da&a%hee& f! \$ NEC P547UL

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La%e\$ P\$! jec&! \$

' EC ) 547. %  
%5G9F ) FC>97HCF

## Da&a%hee&

) F=BH   CF95H9 ) DF   CF95H9 @B?

KKK.G<5FDB978=GD@

, 9@97H %5B; I 5; 9

' EC ) 547. %  
' EC ) 547. %

Vi%ible +e& !i%ele%% , b\$i gi g a %e %e ! f calm &! +! ' \$ mee&i g %" ace%

, 75@56@9 J=GI 5@G5H=CB <5G B9J9F 699B GC G=@9BH. O=H< 5B CI HGH5B8=B; @M @CK BC=G9 @9J9@C: >I GH 228B (EC( AC89), H<9 ) 547. % =G EI =9H9F H<5B H<9 H=7?=B; C: 5 K5H7<.

- <5B?G HC H<9 7CAD@9H9@M G95@98 9B; =B9, H<=G @5G9F DFC>97HCF =G V@H9F-:F99 A 95B=B; 20,000 <CI FG C: A 5=BH9B5B79-:F99 CD9F5H=CB. CCA DF9<9BG=J9 7CBB97H=J=HM 5B8 CDH=CB5@ O=F= DFCJ=89 H<9 I HACGH W9L=6=@HM 5B8 H=A9 G5J=B; CD9F5H=CB. - <9 9B<5B798 9A 698898 &I @H=) F9G9BH9F :I B7H=CB5@HM 9B56@9G K=F9@9GG DF9G9BH5H=CB 5B8 G7F99B G<5F=B; :CF I D HC 16 89J=79G G=A I @H5B9CI G@M, CI H C: H<9 6CL HC MCI F A 99H=B; FCCA. - <9 H97<BC@C; M =G :I HI F9-DFCC: K=H< H<9 75D56=@HM C: DFC79GG=B; 4\$ =BDI HG 5H 30! N. BF=B; =B; H<9 :I HI F9 C: DFC>97H=CB HC MCI F A 99H=B; FCCA <5G B9J9F 699B 95G=9F, EI =9H9F 5B8 5G @CK A5=BH9B5B79 H<5B K=H< H<9 ' EC ) 547. %.

## Be e- &%

S N! - l&e\$ %e\$(ice \$e#' i\$ed R 5 7CAD@9H9@M G95@98 CDH=75@ @5G9F %CD 9B; =B9 5@CKG 5 V@H9F-:F99 89G=; B. BF=@-5BH 7C@CI F 6F=; <HB9GG =G A 5=BH5=B98 5B8 G9FJ=7=B; 7CGHG B998 BC @CB; 9F :95HI F9 =B MCI F 6I 8; 9H.

S L!) N! i%e Le(eI R K=H< 228B, H<9 G=@9BH H97<BC@C; M K=@@ BCH 8=GHI F6 MCI F A 99H=B; .

S N! lam" \$e" laceme & R I D HC 20,000 < A5=BH9B5B79 :F99 CD9F5H=CB  
DCGG=6@9 8I 9 HC %5G9F %=: <H , CI F79.  
S Ri%k G\$! ' " 2 R 6975I G9 C: H<9 +=G? FCI D 2 7CAD@5B79, BC DF9G7F=698  
G5:9HM DF975I H=CBG 5F9 B979GG5FM.  
S P\$! fe%i! al a d Fle\*ible I %&alla&i! R J9FG5H=@9 DFC>97H=CB  
7<5F57H9F=GH=7G 5@CK :CF G=AD@9 DCG=H=CB=B; C: H<9 DFC>97HCF, A5?=B;  
=BGH5@5H=CB 95GM 5B8 DCH9BH=5@M G5J=B; G9H I D 7CGHG.

)FC8I 7H "B:CFA5H=CB  
)FC8I 7H ' 5A9  
' EC ) 547. %  
)FC8I 7H FCI D  
%5G9F )FC>97HCF  
( F89F CC89  
60005761  
"A5; 9  
)FC>97H=CB -97<BC@C; M  
3%CD -97<BC@C; M  
' 5H=J9 +9GC@I H=CB  
1920 L 1200 (O. 1 A)  
AGD97H +5H=C  
16:10  
CCBHF5GH +5H=C <sup>1</sup>  
500000:1  
BF=: <HB9GG <sup>1</sup>  
5400 ' CFA5@/ 3240 E7C A' , " %I A9B; 5700 C9BHF9 %I A9B  
%5AD  
%5G9F %=: <H , CI F79  
%=: <H , CI F79 %=:9 3<FG4  
20000 <sup>2</sup>  
%9BG  
F= 1.5R2.1, := 17.2R27.7 AA  
%9BG G<=:H  
. D HC ! :Q29, /: +60,-0  
\$9MGHCB9 7CFF97H=CB  
+/- 30P A5BI 5@ <CF=NCBH5@/ +/- 30P A5BI 5@ J9FH=75@  
)FC>97H=CB F57HCF  
1.23 R 2 : 1  
)FC>97H=CB D=GH5B79 3A4  
0.8 R 12.9  
, 7F99B , =N9 (8=5; CB5@) 37A4 / 3=B7<4  
&5L=A I A: 762 / 300"; &=B=A I A: 76.2 / 30"  
2CCA  
&5BI 5@, L1.6  
FC7I G A8>I GHA9BH  
&5BI 5@

, I DDCFH98 +9GC@I H=CBG  
1920L1200 (&5L=A I A F9GC@I H=CB C: 5B5@C; =BDI H); 3840 L 2160 (&5L=A I A  
F9GC@I H=CB C: 8=; =H5@=BDI H); 3840L2160 @ 30<N 8=; =H5@  
CCBB97H=J=HM  
+ B (5B5@C; )  
"BDI H: 1 L &=B= D-GI 6 15 D=B  
D=; =H5@  
"BDI H: 1 L ! DB5G9-; 2 L ! D&"T GI DDCFH=B; ! DC)  
AI 8=C  
"BDI H: 1 L 3.5 AA , H9F9C &=B= #57? :CF CCADI H9F 5B5@C; ; 2 L ! D&" 5I 8=C  
( I HDI H: 1 L 3.5 AA , H9F9C &=B= #57? (J5F=56@9)  
CCBHFC@  
"BDI H: 1 L D-, I 6 9 D=B (+, -232) (A5@9)  
%A'  
1 L +#45; ( DH=CB5@ O%A'  
. , B  
1 L -MD9 B (:CF , 9FJ=79); 1L -MD9 A ( . , B 2.0 <=; < GD998) K=H< 2.0A )CK9F , I DD@M;  
1L -MD9 A (O-%A' DCB; @9)  
/=89C , =; B5@G  
' - , C 3.58; ' - , C 4.43; )A%; )A%-&; )A%60  
+9ACH9 CCBHFC@  
+9ACH9 CCBHFC@  
AGD97H +5H=C; AI 8=C CCBHFC@; AI HC A8>I GH; E7C &C89 CCBHFC@; FF99N9-:I B7H=CB;  
! 9@d-:I B7H=CB; "D G9H; &5; B=:M-:I B7H=CB; )5; 9 (I D, 8CKB); )=7HI F9 A8>I GH; )=7HI F9  
&I H9; )CK9F (( B-( FF); ) F9G9BH5H=CB 5B8 &CI G9 CCBHFC@; , 9@97H (I D, 8CKB, @9:H,  
F=; <H); , CI F79 , 9@97H  
E@97HF=75@  
)CK9F CCBGI ADH=CB 3O4  
293 (' CFA5@) / 220 (E7C) / 1.6 (' 9HKCF? , H5B8-6M) / 0.3 ( , H5B8-6M)  
&97<5B=75@  
D=A9BG=CBG (O L ! L D) 3AA4  
480 L 122 L 407 (K=H<CI H @9BG 5B8 :99H)  
O9=; <H 3?; 4  
9.7  
F5B ' C=G9 38B (A)4  
22 / 26 (E7C / ' CFA5@)  
CC@CI F /9FG=CBG  
O<=H9  
Ebj=FCBA9BH5@ CCB8=H=CBG  
( D9F5H=B; -9AD9F5HI F9 3PC4  
5 HC 40  
( D9F5H=B; ! I A=8=HM 3%4  
20 HC 80  
, HCF5; 9 -9AD9F5HI F9 3PC4  
-10 HC 50  
, HCF5; 9 ! I A=8=HM 3%4  
20 HC 80

EF; CBCA=7G  
, 5:9HM 5B8 EF; CBCA=7G  
CE; EAC; EF); +C! , ; - . E/ -MD9 ADDFCJ98  
, D95?9FG 3O4  
1 L 20 (ACBC)  
A88=H=CB5@ F95HI F9G  
, D97=5@ C<5F57H9F=GH=7G  
AI HC )CK9F ( ' /( FF; C5F6CB , 5J=B; G & 9H9F; CCBGH5BH BF=; <HB9GG & C89; CCBHFC@  
"D FI B7H=CB; D"C( & G=AI @5H=CB; D=F97H )CK9F-( U FI B7H=CB; FF99 -=@H; ! DB5G9-;  
! 9@d FI B7H=CB; ! -- ) BFCKG9F CCBHFC@; \$9BG=B; HCB G97I F=HM G@CH; \$9MD58 %C7?;  
%=: <H , CI F79 A8>I GHA9BH; & 5; B=:M; & CI G9 CCBHFC@ K=H< . , B D=GD@5M;  
& I @H=) F9G9BH9F FI B7H=CB; ' 5/=, 9H A8A=B=GHF5HCF 2; ( , D K=H< 30 @5B; I 5; 9G;  
)@ ; &) @5M O-%A' ( DH=CB; \* I =?? , H5FH; , CI F79 , 9@97H K=H< B99D FI B7H=CB; -9GH  
)5HH9FB; . B=EI 9 )CK9F , 5J=B; FI B7H=CBG; . , B /=9K9F  
F99B F95HI F9G  
E7C@C; =75@ & 5H9F=5@G  
DCKB@C5856@9 A5BI 5@G; EC( D57?5; =B;  
E7C@C; =75@ , H5B85F8G  
EF) 7CAD@5BH; +C! G 7CAD@5BH  
O5FF5BHM  
)FC>97HCFG  
3 M95FG D5B-EI FCD95B G9FJ=79  
%=: <H , CI F79  
3 M95FG CF 10000< (K<5H9J9F 7CA9G VFGH)  
, <=DD=B; CCBH9BH  
, <=DD=B; CCBH9BHG  
2L AAA B5HH9F=9G; "+ +9ACH9 CCBHFC@ (477E); %9BG C5D; )CK9F CCF8 (1.8 A);  
)FC>97HCF; \* I =?? , 9HI D I =89; , 97I F=HM , H=7?9F; . G9FG & 5BI 5@ , H=@HM GC:HK5F9  
( DH=CB5@ A779GGCF=9G  
( DH=CB5@ A779GGCF=9G  
. B=J9FG5@ C9=@B; & CI BHG () #01. C&, ) #02. C&) F); O=F9@9GG %A' AC8I @9  
( ' ) 05%&2; ' ) 05%&4; ' ) 05%&5)

<sup>1</sup> CCAD@5B79 K=H< " , ( 21118-2012

<sup>2</sup> 50% C: =B=H=5@ 6F=: <HB9GG 5H H<9 9B8 C: GD97=V98 @5G9F @=:9 H=A9 5H 25 89; F99  
5A6=9BH H9AD9F5HI F9.

B95A9F-EF)  
EF)  
B95A9F-+C! ,  
+C! ,  
B95A9F-CE  
CE

B95A9F-- . E/-ADDFCJ98  
- . E/ -MD9 ADDFCJ98

[FCF ACF9 =B:CFA5H=CB, J=G=H H<9 DFC8I 7H 89H5=@G D5; 9](#)

9H =B HCI 7< K=H< , <5FD/' EC

-<=G 8C7I A9BH =G O 2023 , <5FD ' EC D=GD@5M , C@ H=CBG EI FCD9 A6! .

A@@ F=; <HG F9G9FJ98 =B :5JCI F C: H<9=F F9GD97H=J9 CKB9FG. A@@ <5F8K5F9 5B8  
GC:HK5F9 B5A9G 5F9 6F5B8 B5A9G 5B8/CF F9; =GH9F98 HF589A5F?G C: H<9 F9GD97H=J9  
A5BI :57HI F9FG. A@@ GD97=V75H=CBG 5F9 GI 6>97H HC 7<5B; 9 K=H<CI H BCH=79. EFFCFG 5B8  
CA=GG=CBG 5F9 9L79DH98. 31.07.2023



C<CCG9 MCI F 7CI BHFH HC ; 9H ACF9 =B:CFA5H=CBG 56CI H H<9 DFC8I 7H

&5?9 MCI F G9@97H=CB



F9A9A69F AM 7<C=79