



Région académique
HAUTS-DE-FRANCE

Tgevt cvf g'hcecf 2 o lg'f g'Nng
42. 't wg'UclpVLces wgu'
DR'92; "
7; 255'NKNG'E GF GZ ""

'GZ RGF KVGWT

'F GUVK CVCKTG

'F RR'Dwt gc'w'f gu'ceekf gpw'f t qhgukppgn

P ÅTPG"<

P ÅDHG"<

F GENCT CVKQP 'F)CEEK GP V'F G'UGTXKEG. 'F WVT CXCKN'QWF G'TGEJ WG'
*r gt uqppgnf kt gevgo gpv't 2 o wp 2 t 2 u'twt 'lg'dwf i gv'f g'hGvcv'!"

C'TGO RNK' C'N)GP ET G'DNGWG

P g't cu'wldugt 'ègv'ko r t lo 2 't qwt 'lg'u'r gt uqppgnf t h'gp'ej cti g't ct 'h'ERCO 'pqp'wswrkt gu't get w 2 u'k'vgo r u'
lpeqo r rgv'gv'qv'f qwt 'wpg'f wt 2 g'lp'f t lgtw g'k'wp'cp. 't gt uqppgnf t 2 o wp 2 t 2 u'f ct 'lg'GRNG-0"

F CVG'F G'N)CEEK GP V'z".....F CVG'F G'NC'TGEJ WG'z'

*eqej gt 'h'ecug'eqttgur qf cpvg+

V[RG'F)CEEK GP V'< Ceekf gpv'wt 'hg'hgw'f g'tcxcln Ceekf gpv'f g'tclg Ceekf gpv'gp'o kuqkp

TGPUGH PGO GPVUEQPEGTP CP V'NC'XKVKO G'<

O o g O O

P qo 'f g'pckucpeg"<".....P qo 'f)uci g'<

Rt 2 p qo u'z'

.....
F cvg'f g'P ckucpeg"<".....P wo 2 tq'K UGG"<

P wo 2 tq'f Ci gpv'P WO GP +<

Cf t gug'r gt uqppgnf"<

Eqf g'r qucr'<".....Xkr g'<

V 2 r j qpg"<

qw
Cf t gug'2 r gvt pks wg'<".....B "
*hewncvht

UVCVW'GV'ECVGI QTK'F'G'N)CI GPV'<'

""Uci lckg"*****Vkwrc'k'g"*****P qp\'kwrc'k'g"*****O c ,t'g'«\kt'g'f'2h'p'k'h"l"*****C"*****D"*****E"

I'TCF'G/'F'F'ERNIP'G/'HQPE'VRQP"***gp\'q'w'g'u'g'w'g'u'<"

PQO 'GV'CF'T'GUUG'F'G'N)GE'QNG'IF'G'N)GVCDNKUGO GPV'IF'WUGTXIE'G

'h'g'ecu'2'ej'2'cpv'lpf'ls'wgt'h'2'cd'k'ugo'gpv'f'g't'cw'cej'go'gpv'<

Eqf'g'Rquv'c'i'<"*****X'k'ng'<'<

V'2'f'r'j'q'p'g'f'g'h'g'v'c'd'k'ugo'gpv'<

C'f't'g'u'g'2'g'e'v't'q'p'k's'w'g'r't'q'h'g'u'k'q'p'p'g'm'g'<"*****B

TGPUGH PGO GPVUEQPEGTPCPV'N)CEEK'GPV'<

F'c'v'g'f'g'h'c'ee'k'f'g'p'v'<"*****J'g'w'g'f'g'h'c'ee'k'f'g'p'v'<"*****j

F'c'v'g'f'c'h'g'e'v'c'q'p'f'c'p'u'h'g'r'q'u'g'q'e'w'r'2'c'w'o'q'o'gpv'f'g'h'c'ee'k'f'g'p'v'<

J QTC'K'GUF'G'VTCXCK'N'G'LQWT'F'G'N)CEEK'GPV'<

.....O'CVR'.....C'RT'G'U'O'K'.....U'Q'K'
f'g'.....j'.....«'.....j'.....f'g'.....j'.....«'.....j'.....f'g'.....j'.....«'.....j'.....
.....

S'WQVK'G'F'G'UGI'XIE'G"***gp'r'q'w't'e'g'p'c'i'g'<"*****

NGWRTGEK'F'G'N)CEEK'GPV'<

E'K'T'E'Q'P'U'V'C'P'E'G'U'F'G'V'C'K'N'G'G'U'F'G'N)C'E'E'R'G'P'V'*****g'p'x'k'q'p'p'g'o'gpv'<'u'c'ng'f'g'e'q'w't'u.'d'w't'g'c'w.'g'u'e'c'r'k'g't.'h'x'd'q't'c'v'k'g'g'e.'v'-'e'j'g'
g'z'2'ew'2'g.'i'g'u'g'g'h'g'ew'2'<

.....

PCVWTG'F'G'N)CEEK'GPV'<

.....cevkxk² 'ur qt vkgej wg'f)qdlgv.....gzi qukkqpo cpwgp vkp
.....ceekf gpv'f g'rc'xqlg'r wdrks wgeqpcev*ri tqf wkv+Ij gwtv*o gwdrg+i rkuacf gtkus wgu'r uf ej quqekcwz
.....ci tguukqp² rgevt kuc vkqp I² rgevt qewkqpj gwtv'f g'r gtuqppgvqtukqp
.....ej wg'f g'r gtuqppggzi rqukkqp
.....cwtg

Gr? o gpv'o c² tkgi'cuuqek² <<"nceekf gpv*o cej kpg."qwkri"qwkri"<<"o clp."x² j lewg."gveí +<

NGUDNGUWI'GU'QWNGUKQP'U'UQP'V'NGU'UW&X'CP'V'GU'<*ri t² ekugt'e'1/2² 'f tqk'qwi cwej g'ig'ecu² ej gcpv+

"

F'CVG'F'G'N'C'E'QP'UVCVCVIQP'O'GF'K'ECNG'F'G'UNGU'QP'U'<

Lqkpf tg'qdri cvqk go gpv'wp'egt vkecv'o ² f lecnlpkicri'qtki lpcrif² etkxcpv'rgu'ri ukqpu'gv² vcdk'f cpu'rgu'46'q'w'rgu'6: 'j gwt gu's wk'qp'v'uwk'k' nceekf gpv'o"

UKGI'G'F'G'UNGU'QP'U

"

"Et -pg
"O go dt g'lw² tlgwt
"² r cwg"
"tcej ku'egt xlecn
"dtcu
"cxcpv'dtcu
"eqw'f g"
"r qki pgv
"O clp"
"r qweg"
"cw²t g*u+f qki v'u+*ri t² ekugt+

"Hceg
"tqp
"pgl "

"O go dt g'lpf tlgwt
"j cpej g
"tguukgt
"ewkug
"i gpqw'
"lco dg
"o qngv
"ej gxkng

"Rlqf
"qtvgk'u+*ri t² ekugt+<

"

"f'gwz"
"ò krif tqk
"ò krif cwej g"

"Vt qpe
"eqw'
"eqmppg"xgt² dtcrg
"vj qtcz
"e'1/2gu
"r qwo qpu
"tcej ku'f qtucn
"tcej ku'qo dckg
"dcuukp
"cdf qo gp"
"eqee{z

"F gpv*u+
"O -ej qktg'lpf tlgwtg"
"O -ej qktg'lw² tlgwtg"

"Rgcw
" Cwt gu'fi ukqpu'ri t² ekugt +

PCVWIGFGU'NGUKPU" *eqej gt'rc'ecug'eqttgur qpf cpv'<'rc'if ukqp'r t lpekrcrg+<

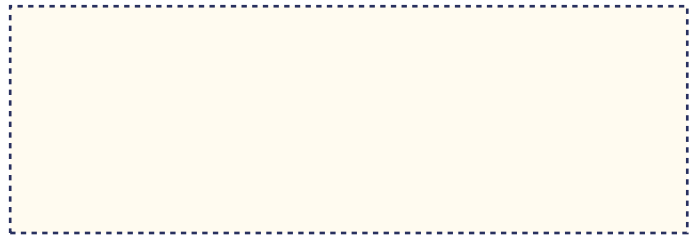
'Chgevkqp" t gur kt cvktg	'F qwrgwt	"N² ukqp pgwtqmi ks wg"	"Vtqwdrg'cwf kkh
'Co r wcvkqp	'Getcugo gpv	""N² ukqp" T'vcwo cvkwo g"	"Vtqwdrg'ugpuqt kgn
'Cur j { zkg	'Gpvqtug	r u{ej qmi ks wg	"Vtqwdrg'xluwgn
'Dt Âwtg.'i gwtg	'Hicewtg	"Nwo dci q'gv uelc'ks wg"	"
'Egtxlecri kg	""J gtpkg"	""Rrc'g'/'r ks Âtg"	
'Eqo o qvkqp	""Kphro o cvkqp	""Vtcwo cvkwo g"et-plgp	
'Eqpwukqp	'Kpvzkecvkqp	"Vtcwo cvkwo g"	
'F gto kg."gel ² o c"	"N² ukqp" rki co gpvctg'qw o wuewrctg'"	kpvtpg	

'Cwtg'<

"
NoCEEKFGPV'C/V/K'GW'FGU'VGO QRP UA " "QWK"" "PQP *Tgo r rkt'rc'twdtks wg'3'qw'4'""qdm'cvkwo'gpv"+
"

3+"Fcpwv'p'f'c'w'g' hckg'tgo r rkt'ek'f guuqwu'r ct'rgu'² o qlpu."qw'lqpf tg'rgwt *u+f² r qukkqp *u+f cv² g*u+g'v'uki p² g*u+cxge"
pgo *u+r t² pgo *u+.'h'p'ev'k'pu.'cf t'guug *u+'<

F cvg'<"..... Uli pcwtg'f w'f gu'² o qlpu'<



4+"Fcpwv'p'f'c'w'g' udn'pø' 'c'r cu'gw'f g'² o qlpu'qewrctgu.'hckg'tgo r rkt'ek'f guuqwu'r ct'rc'r tgo k² tg'r gtuqppg'f g'""h'w'v'w'g'g'o'gpv""
<'rc'w'ng' h'ceekf gpv'c'² v' 'uki pcif "gp'lpf ks wcpv'ugu'eqqt f qpp² gu'qw'lqpf tg'wpg'cvgu'cvkqp+<

'Rt² elugt 'rc' f cvg'gv' h'j gwt g'<'rc' w'ng'rc' x'k'v'lo g' t' h'i pcif 'h'ceekf gpv'<'rc' r'gtuqppg' h'i pcwkt g0

F cvg'<"..... Uli pcwtg'f g'rc'r tgo k² tg'r gtuqppg'cxgt'kg'"

