

ANS

* Playfair Cipher Encryption

(1) plaintext = Point

Key = Soni

S	O	N	I	A
B	C	D	E	F
G	H	K	L	M
P	Q	R	T	U
V	W	X	Y	Z

PU → QP NI → TA TZ → UY

→ Cipher Text = QPIAUY.

(2) plaintext = Black

Key = White

W	H	I	T	E
A	B	C	D	F
G	K	L	M	N
O	P	Q	R	S
U	V	X	Y	Z

BL → CK AC → BD KZ → NV

→ Cipher Text = CKBDNV.

(3) Plaintext = Authentication.

Key = Authorization.

A	U	T	H	O
R	I	Z	N	B
C	D	B	F	G
K	L	M	P	Q
S	V	W	X	Y

AU → UT TH → HO EN → FZ TI → UZ

CA → KR TI → UZ ON → HB.

→ Ciphertext = UTHOFZUZKRUZHBS

(4) plaintext = UNiversity.

key = PNUDUS.

I	N	D	U	S
A	B	C	E	F
G	H	K	L	M
O	P	Q	R	T
V	W	X	Y	Z

UN → SD IV → AT ER → LY SI → IN

TY → RZ.

→ Ciphertext = SDAILYINRZ.