

ANS

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* 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 → IA TZ → UY

→ Cipher Text = QP I A U Y.

(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 = CK B D N V.

(3) Plaintext = Authentication.
Key = Authorization.

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

AU → UT TH → HO EN → FZ TI → UZ

CA → KR TE → UZ ON → HB.

→ Cipher text = UTHOFZUZKRUZHB

(4) Plaintext = University.
Key = TADUS.

I	N	D	U	S
A	B	L	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.

→ Cipher Text = SDAI LY IN RZ.