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Written Communication Standardised.

1) All the world's a stage, and all the men and women
merely ~~merely~~ ^{actors} players"

Encrypt the message with Caesar cipher with shift 5

a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
q	r	s	t	u	v	w	x	y	z						
16	17	18	19	20	21	22	23	24	25						

far YMJ bEWix f XYPLT,

22 25 27 mod 26

fsi far YMJ YJS fsi

btrjs ~~YTWJd~~ ~~TWJd~~ uqfdjnx .

22 25

24 29

2) A short cryptic message was received from a friend
"xs fi , svwsy xs fi , xlxt mw xli wytwxmst"

Shift 4.

Decrypted message:-

to be, or now to be that is the ^{question} question

3) Encrypt the following phrase using playfair cipher
with key SECURITY

plaintext: KEEP IT SAFE

S	E	C	U	R
H	T	Y	A	B
D	F	G	H	J
L	M	N	O	P
a	bv	sw	tx	z

KEEP IT SAFE

KE EP IT SA FE

KE = ER
EP = RM
IT = TY
SA = UI
FE = MT

FRRMTYUIMT

KE : RE FR }
EP : ~~MR~~ RM }
IT : TY }
SA : UI }
FE : MT }

REMBIYUIMT : FRRMTYUIMT

E) Decrypt the following ciphertext :- LCZTRTGFVNCA.
key :- HARMONY

F	A	R	M	O
N	B	C	D	
G	F	H	IJ	
K	L	OP	X	S
T	U	V	W	X

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

LC : NS SN

ZT : TK

NSTKOA

RT : OQ

SNTKOQYIUCBI

CF : YJ

XN : UC

GA : BN

5) Encrypt the phrase "GOOD MORNING" using monoalphic cipher

KEY	→ A B C D E F G H I J K L M N O P
KEY	A B C D E F G H I J K L M N O P

a	r	s	t	u	v	w	x	y	z
p	o	i	u	y	t	r	e	w	q

GOOD MORNING → ZSSV FSODKDZ

G) Decrypt the message SZEVZMRMXWVZ

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

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

HAVE A NICE DAY

8) Decrypt the following message which was encrypted using vernam cipher

Encrypted message :- DLAYFYLCECZG

key : LIMNQBYXPTJZ

Ciphertext	D	L	A	Y	F	Y	L	C	E	C	Z	G
Value	3	11	0	24	5	24	11	2	4	2	25	6
key	L	I	M	N	Q	B	Y	X	P	T	J	Z
value	11	8	12	13	16	1	24	23	15	19	9	25
Encrypted	-8	3	-12	14	-11	23	-13	21	-11	-17	16	-19
Text	18	3	14	11	15	23	13	5	15	9	16	7
	S	d	o	e	P	X	n	f	p	16	9	h

sdo epxnfpjh.

$$(-8+26) \bmod 26$$

$$(-12+26) \bmod 26$$

$$-11+26$$